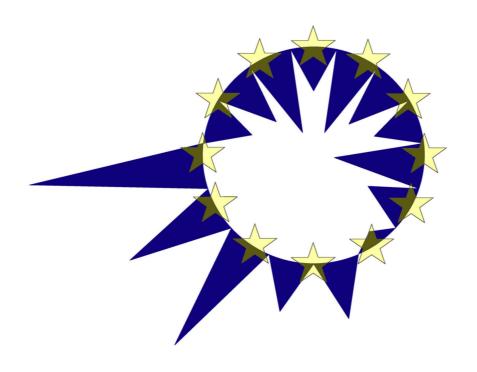
EUROMOD

COUNTRY REPORT



HUNGARY (2005)

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1. BASIC INFORMATION

1.1 Basic figures

Table 1. Basic figures

	Pop.	pop.	pop.	Life	Fertility	Unemp	GDP	Curi	ency
	(m.)	< 18 (%)	≥ 65 (%)	expect. (years)	rate	rate	per head (PPP)	Name	exch. rate ^[1]
[2005]	10097549	19.3	15.6	72.75	1.32	6.9	16070	HUF	247.36

 $^{^{[1]}}$ Euro exchange rate on 30^{th} of June. Source: Hungarian Central Bank

Source: Hungarian Central Statistical Office (2005)

1.2 The tax-benefit system

Table 2. Tax-benefit system and government budget

	Total general government revenue ^[1] % of GDP	Total tax receipts ^[1] % of GDP	Total general government expenditure ^[1] % of GDP	Social protection [1] % of GDP
[2005]	42.1	37.1*	49.9	20.7 (2004)

Source: [1]Eurostat (2005)

Table 3. Social protection expenditure by function (as % of total social protection expenditure)

	Sickness/ health care	Disability	Old age	Survivors	Family/ children	Unemployment	Housing	Social exclusion
[2004]	29.5	10.3	43	2.5*	12.1	2.9	2 (5**

^{*}Old age and survivors

Source: Eurostat (2007)

Table 4. Taxation (as % of total tax receipts)

	Personal income tax	Corporate income tax*	Social security	contributions	Taxes on goods and	Other taxes
			Employees**	Employers	services***	
[2005]	17.8	5.7	7.6	26.2	41.9	0.8

^{*} Corporate income and dividend tax

Source: National Accounts Hungary 2004-2005; HCSO 2007.

^{*} Total receipts from taxes and social contributions after deduction of amounts assessed but unlikely to be collected

^{**} Housing and Social exclusion

^{**} Includes self-employed

^{***}Taxes on production and import



1.2.1 Basic information about the tax-benefit system

- The tax-benefit system is an unified, national system, there aren't policies different across regions.
- The tax system generally changes in January each year. Main benefit changes happen at the same time. In Hungary, the "tax year" runs from January 1 to December 31.
- Retirement age is 62 years for men and 60 for women (whose retirement age will increase to 62 years by 2008).
- The minimum school leaving age is 16; dependent children are defined as aged under 16 or under 25 if the child is in full-time education and not married
- For benefit and tax purposes a lone parent is not legally married to anyone and is a parent of a dependent child.
- The income tax system is an individual system
- Income tax withholdings are collected on a cumulative basis, i.e., the system tries to ensure withholding the exact amount due in the financial year. Only individuals paying tax on trading income (e.g. self-employed people) or who pay tax at the higher rate must file a tax return for income tax.
- The means-tested benefit system assesses entitlement according to benefit unit income. The benefit unit is the household the couple (cohabiting or married) and other adult person(s) or single adult plus any dependent children.

1.3 Social Benefits¹

Old-age benefits

Old-age benefit (*öregségi nyugdíj*): The amount of pension depends on the average monthly income and the insurance period. 20 years of contribution payment is required for a full old-age pension, and 15-19 years for a partial pension. Retirement age is 62 years for men and 60 for women, whose retirement age will increase to 62 years by 2008. There is a minimum pension with the amount of HUF 24,700 per month in 2005. No minimum for the partial pension. The amount of the minimum pension is also the eligibility threshold for several social benefits (e.g. regular social support).

Early Retirement Pension (korkedvezményes öregségi nyugdíj) is available to those involved in jobs resulting in increased physical load or that are hazardous to health. Entitlement to pension starts 2 years earlier for those who have worked in such activities for at least 10 years (men) or 8 years (women), and retirement age is further reduced by 1 year for every additional working period of 5 years (men) or 4 years (women) in such conditions.

Advanced Pension (*előrehozott öregségi nyugdíj*) is paid no earlier than five years before the retirement age to women who were:

¹ This and the following two topics (Social Contribution and Taxes) are a shorter modified version of the reference topics in the I-CUE Fesibility Study.



- born after 31.12.1945 and have a service period of at least 38 years,
- born in 1945 and have a service period of at least 37 years,
- born in 1944 and have a service period of at least 36 years,
- born in 1943 and have a service period of at least 35 years, or
- born before 1.1.1943 and have a service period of at least 34 years.

For men from the age of 60 who were:

- born before 1.1.1939 and have a service period of at least 37 years, or
- born after 31.12.1938. and have a service period of at least 38 years.

Those who need no more than 5 years of service period for the Advanced Pension, are entitled to the Advanced pension at reduced rate (Csökkentett összegű előrehozott öregségi nyugdíj).

A Deferred Pension is available in the first pillar: the old-age pension increases with 0.5% of the pension for each 30 days of additional service time. According to 2002 data, Hungary spends 20.9 per cent of its GDP on social protection expenditure and 9.1 per cent of the GDP to pension expenditure.

Survivors benefits

For survivors benefits a surviving spouse (widow or widower, divorced spouse or cohabitant), the children and also other persons (parents, grandparents, and foster parents) can be entitled. The surviving spouse can be entitled for a permanent or a temporary widow(er)s pension if his/her deceased spouse was an old-age or invalidity pensioner or got the necessary service period.

Temporary Widow(er)'s Pension (*ideiglenes özvegyi nyugdt*j) is paid for the surviving spouse for 12 months, or until the common child reaches 18 years of age. After the termination of the temporary widow(er)'s pension the widow(er) is entitled to a

Permanent Widow(er)'s Pension (özvegyi nyugdij) if the widow(er) is above retirement age, invalid or has at least two minor children. The amount of the pension is 50% of the old-age pension or invalidity pension the deceased person would have been entitled for at the time of his/her death. This is reduced to 30% if the widow(er) receives his/her old-age or invalidity pension on his/her own right. In 01.01.2005 there were 175,000 permanent and temporary widow(er)'s pensioners in the country.

Parental Pension (szülői nyugdíj) is paid to those (grand)parents, who are disabled or aged 65 years or more, were dependant upon their (grand) child throughout the preceding year, and whose deceased (grand)child was entitled to old-age or invalidity pension at the time of death. The amount of the parental pension is equal to the amount of the permanent Widow(er)'s Pension.



Orphan's Allowance (árvaellátás): Orphans having lost one parent are entitled to 30% of the deceased parent's pension as Orphan's Allowance. Those orphans having lost both parents are entitled to 60% of the higher pension of the two parents. About 112,000 people were entitled to this benefit in 01.01.2005.

Survivors of a person died in a work-related accident are entitled to Work Accident-related Survivors' Benefits. They can be entitled to Temporary and Permanent Widow(er)'s Pension, Parental Pension and Orphan's Allowance according to the above rules with the exception that in this case the length of the deceased person's service period is not a condition.

Sickness benefits

Two kinds of sickness benefits are paid by social insurance.

Absence Fee (távolléti díj) is paid to the sick employee by the employer for up to 15 working days annually with the amount of 80% of the daily gross earnings.

Sickness Benefit (*táppénz*) is paid by the Health Insurance Fund for a maximum of one year during employment or for 90 days after the termination of employment. If the previous insurance period is at least two years, the amount of sickness benefit is 70% of the daily average gross earning over the previous calendar year, while if the previous insurance period is less than 2 years, the amount is 60% of the daily average earnings.

Parents can be entitled for Sickness Benefit in order to nurse their children as follows:

- Until the child reaches 1 year of age,
- For 84 days per child if the child is between 1-3 years,
- For 42 days per child if the child is between 3-6 years and for 84 days for a lone parent,
- For 14 days per child if the child is between 6-12 years and for 28 days for a lone parent.

In 2004 the total expenditure on Sickness benefits was 96,240 million HUF.

Disability benefits

Disability benefits are heterogeneous in Hungary, there are both insurance-based and noncontributory benefits among them.

Invalidity Pension (*rokkantsági nyugdíj*) is due to those persons whose working capacity has been reduced by at least 67% and no improvement is expected in his/her health for at least 1 year, does not work regularly or his/her wage is substantially lower than before becoming invalid.

There are three classes of invalidity pension:



- Class III: at least 67% reduction in working capacity but not totally incapacitated for work;
- Class II: 100% reduction of working capacity but no need of permanent care by others;
- Class I: 100% reduction of working capacity and need of permanent care by others.

Eligibility for invalidity pension starts from the day on which a medical committee diagnoses the invalidity. The invalidity pension is not replaced by an old-age pension, but covers also the period after the retirement age. Eligibility terminates if the pensioner is no longer invalid, or works on a regular basis.

Eligibility criteria for invalidity pension depend on the age and the length of the insurance period of the insured. The insurance period necessary for Invalidity pension is:

- below 22 years of age: 2 years
- -22-24 years of age: 4 years
- -25-29 years of age: 6 years
- -30-34 years of age: 8 years
- -35-44 years of age: 10 years
- -45-54 years of age: 15 years
- -55 and above: 20 years.

Under 25 years of insurance period the amount of the pension is 37.5% to 63% of the average wage, while above 25 years of insurance period it is according to the old-age pension formula. In case of Class II invalidity the pension is 5% more than in Class III, while in Class I 10% more than in Class III.

The minimum invalidity pension for Class III is equal to the minimum old-age pension (HUF 24,700 per month), being HUF 25,850 per month in Class II and HUF 26,800 per month in Class I.

In 01.01.2005 there were 342,000 invalidity pensioners above retirement age and 466,000 below retirement age (808,000 altogether).

Other disability benefits are non-contributory benefits and paid by the central budget:

Invalidity Annuity (*rokkantsági járadék*) is paid for persons above 18 years of age who lose 100% of their working capacity before reaching the age of 25. Its amount is HUF 27,180 per month. Those adult persons that are not eligible for invalidity annuity, but their working capacity has decreased by at least 67% and that get a Disability benefit or Annuity for the Blind, are eligible for Regular Social Support (*Rendszeres szociális segély*).

Temporary Invalidity Annuity (átmeneti járadék) and Regular Social Annuity (Rendszeres szociális járadék) are due to invalid persons, whose working capacity is reduced by 50%, who cannot find a rehabilitation workplace, and who are not entitled to old-age, invalidity or work accident-related disability pension, nor to unemployment benefit, sickness benefit, work accident sick pay or maternity allowance.

The Temporary Invalidity Annuity can be paid to those people who reach retirement age within 5 years and have the necessary contribution payment period. The annuity amounts to 75% of the old-age pension that he/she would be entitled to upon reaching retirement age. However, the annuity can be no less than the minimum amount of Regular Social Annuity. To the Regular Social Annuity those people are eligible, who haven't reached retirement age, but have half of the contribution payment periods necessary for invalidity pension. The Regular Social Annuity is HUF 21,890 per month.

Disability Benefit (fogyatékossági támogatás) is paid to those persons above the age of 18 whose severe disability (visual, hearing, mental, physical or multiple impairment or autism) is permanent and that are unable to live independently. It is a flat-rate benefit, its amount is 80%



of the minimum old-age pension in case of multiple disadvantages or a severe disadvantage which makes any kind of self-help impossible; and 65% of it in any other cases.

People with severe disabilities can also apply for specific transport allowances:

- Transportation support (közlekedési támogatás) for transportation costs of disabled people;
- Support for car purchase (személygépkocsi szerzési támogatás);
- And Support to make a car barrier-free (személygépkocsi átalakítási támogatás).

Employment injuries and occupational diseases

Contributory benefits for employed people in case of work-related injuries or occupational diseases.

Work Accident Sickness Benefit (baleseti táppénz) is payable for a maximum of one year with the possibility of an extension for a further year. Its amount is 100 per cent of the previous average income.

Work Accident Annuity (baleseti járadék) is payable to a person who lost his/her working capacity by 15-67% as a consequence of an employment injury. Its amount depends on the degree of invalidity. Its amount is expressed as a percentage of monthly average earnings as follows:

Level 1: 16-25% reduced capacity: 8% of the monthly earnings;

Level 2: 26-35% reduced capacity: 10% of the monthly earnings;

Level 3: 36-49% reduced capacity: 15% of the monthly earnings;

Level 4: 50-66% reduced capacity: 30% of the monthly earnings.

If the reduction of the working capacity does not exceed 25 per cent the annuity is payable for a maximum of two years, while if it exceeds 25 per cent then without time limit.

Work Accident-related Disability Pension (baleseti rokkantsági nyugdíj) is paid if the capacity for work is more than 67% reduced as a consequence of a work accident, or at least 50% reduced due to silicosis. It is paid according to the same three classes used in the determination of Invalidity Pension:

- Class I: 70% of the monthly average earning, minimum: HUF 29,650 per month,
- Class II: 65% of the monthly average earning, minimum: HUF 26,050 per month,
- Class III: 60% of the monthly average earning, minimum: HUF 24,800 per month.

Unemployment benefits

Unemployment Benefit (munkanélküli járadék): Employees and self-employed persons having lost their job are entitled to Unemployment Benefit if they have been employed for at least 200 days during the previous 4 years, if they became involuntarily unemployed, have no



entitlement for pension, get no sickness benefit and seek a job and co-operate with the labour centre. The amount of the unemployment benefit is 65% of the gross average salary of the previous 4 calendar quarters. Its minimum amount is 90% of the minimum old-age pension and its maximum is 1.8 times of the minimum old-age pension (HUF 44,460) per month. It is paid from employee and employer contributions paid to the Labour Market Fund. One day of benefit payment is derived from five days of employment, the maximum payment period is 270 days. In 2004 119,534 people got an Unemployment Benefit.

Pre-retirement Unemployment Assistance (nyugdíj előtti munkanélküli segély): Unemployed persons may apply if they are within five years of reaching retirement age, received unemployment benefit for at least 140 days and have exhausted the entitlement for unemployment benefit, have a sufficient contribution period for retirement (normally 20 years), have no prospect of finding a suitable job, and co-operate with the Labour Centre. Its amount is 80% of the minimum old-age pension = HUF 19,760 per month. In 2004 5,602 people got this assistance.

Incentive Benefit for Job-seekers (*álláskeresést ösztönző juttatás*): Unemployed persons can be entitled if they were entitled to unemployment benefit for at least 180 days but it was terminated because they received a job or accepted a training opportunity, get no invalidity pension and co-operate with the Labour Centre. Its amount is 85% of the minimum old-age pension. It can be paid for 180 days or for 270 days for persons over 45 years of age. This benefit was introduced in 2003 and it was paid to 15,825 people in 2004.

Maternity benefits

Maternity Allowance (terhességi-gyermekágyi segély): Mothers giving birth to a child are entitled to two types of benefits depending on their previous employment situation. If they are insured for at least 180 days during the last two years before delivery they are entitled to maternity allowance. It is paid for 24 weeks (4 weeks before and 20 weeks after the planned date of birth, or 24 weeks after the date of birth, depending on the mothers' choice) and its amount is 70% of the daily average gross earnings of the previous year.

Maternity Grant (anyasági támogatás): Resident women who give birth, had previously participated in prenatal care at least 4 times, and have no insurance are entitled to a one-off lump-sum payment of 225% of the minimum old-age pension (Öregségi nyugdíj) = HUF 55,575 or 300% = HUF 74,100 in case of twins.

Child Care Allowance (gyermekgondozási segély): This is a universal entitlement financed by the state budget that provides a flat-rate benefit to parents who stay away from work to care for their children under the age of 3 (under age of 10 in case of permanently ill or severely disabled children) or for grandparents who care for their grandchildren aged between 1-3 years in the household of the parent. In case of twins the allowance is paid until the children reach the compulsory schooling age (usually 6 years). The monthly amount is equal to the minimum oldage pension of HUF 23,200, in case of twins the amount is doubled.

Child Care Fee (gyermekgondozási díj): is a contributory benefit, which is paid after the expiry of Maternity Allowance until the child reaches 2 years of age if the parent does not work. The eligibility criterion is at least 180 days of insurance during the last two years before



delivery of the parent who wants to take care of the child at home. Its amount is 70% of the daily average gross earnings of the previous year with a maximum of HUF 83,000 per month. Parents entitled for child care fee cannot be eligible for child care allowance.

Child Raising Support (*Gyermeknevelési támogatás*): It is a universal benefit financed by the state budget for parents who raise three or more children in their own home, if the youngest child is between 3 and 8 years old. The monthly amount is equal to the minimum old-age pension, irrespective of the number of children.

Child benefits

In Hungary a well-developed child benefit system is in operation consisting of universal and means-tested benefits.

Family Allowance *(családi pótlék)* is a universal benefit financed by the state budget. It is paid to the parent from the birth of the child to the termination of studies in the compulsory education system (usually 0-16 years), and then during secondary school education or vocational training of the child (up to 24 years of age). Its amount depends on the number of children in the family, whether a single-parent family or not and whether the child is disabled. In the month of July double amounts are paid in order to support schooling.

Monthly amounts:

1 child in the family: HUF 5,100, 1 child, single parent: HUF 6,000,

2 children in the family: HUF 6,200 per child, 2 children, single parent: HUF 7,200 per child,

3 or more children in the family: HUF 7,800 per child, 3 or more children, single parent: HUF 8,400 per child,

permanently ill or severely disabled child in the family: HUF 13,900,

permanently ill or severely disabled child, single parent: HUF 15,700, child in foster home/at

foster parent: HUF 7,200.

Regular Child Protection Benefit (*rendszeres gyermekvédelmi támogatás*): This benefit is paid to the family if the income per person in the family does not exceed the amount of minimum old-age pension of HUF 24,700. The local authority can also examine the property position of the family. The monthly amount of regular child protection benefit is 22% of the minimum old-age pension = HUF 5,434. The regular child protection benefit can be provided even after the child reaches 18 years of age if he/she is a regular student by his/her age of 23 in case of secondary education and by the age of 25 in case of tertiary education.

Family tax allowance *(családi adókedvezmény)*: Every household with children is eligible for family tax allowance if it has a taxable income. Its amount varies according to the number of children in the family:

- One child family: HUF 3,000,

- Two children family: HUF 4,000 / child,

- Three or more children: HUF 10,000 / child.



Social assistance

The specific forms of social allowances are means-tested. They are provided by local governments, which have some competence in specifying the eligibility criteria. The financing of these benefits comes from the central budget by 90%, while local authorities pay the rest.

Regular social benefit (rendszeres szociális segély): This is a social assistance scheme to ensure a minimum standard of living. The amount of the benefit is determined by the per capita income of the applicant's household.

People can be eligible to this benefit, if they are

- Of working age (18 years or more),
- lost at least 67% of their working capacity or are entitled to a blind person's allowance or disability benefit, or
- non-employed², and
- their personal income or the per capita income of the household is not more than 80% of the minimum old-age pension.

The amount payable varies in such a way that it supplements the actual income of the beneficiary to reach 80% of the minimum old-age pension.

Nursing Fee (ápolási díj): Paid to people who provide permanent care to a disabled relative:

- to a severely disabled or a permanently ill person under the age of 18;
- to a severely disabled person in need of increased care:

² According to the Act III. 1993 on Social administration and benefits a person is qualified as non-employed, if

And he/she does not have an earning activity, except employment organised by the local authority or employment with a book for occasional employment.

a, the paying period of his/her unemployment benefit or income supplement was terminated and he/she does not get an incentive benefit for job-seekers, or

b, the paying of the unemployment benefit was terminated before the end of the paying period because of employment and after the end of employment he/she didn't obtain a right to the unemployment benefit again, or

c, within the last two years before claiming for the regular social support he/she had cooperated with the job centre or the body designated by the local authority for at least one year, or

d, the paying of nursing fee, child care allowance, child raising support, regular social annuity, temporary invalidity annuity, invalidity pension or work accident-related disability pension was terminated, and the claimant had cooperated with the job centre or another body designated for cooperation for at least three months right before application.



– to a permanently ill person above 18.

The amount of the benefit is determined by the independent local governments in a local government decree and may be no less than 80% of the minimum amount of old-age pension. In case of nursing a permanently ill person above 18 years of age, the nursing fee is provided by the local government on a discretionary basis, in this case, the amount is fully financed by the local government's budget.

Amount of payment:

- at least the minimum amount of old-age pension if the claim is based on the own right of the claimant: HUF 24,700 per month,
- at least 80% of the minimum amount of old-age pension if the claim is based on the discretionary decision of the local authority. In this case, the local government can regulate the entitlement conditions, but the household income per person taken into account during the judgement of the claim cannot be lower than the old-age pension minimum, or 150 per cent of it in case of a one-person household.

There is no comprehensive information available on how local authorities specify the rules of the nursing fee on their discretionary right. But according to the information available it can be supposed that most of the settlements (at least the bigger ones) provide nursing fees for nursing of permanently ill family members above the age of 18 as well. In most cases the eligibility criteria of this benefit are the same as the conditions specified in the Social Act.

Old-age Allowance *(időskorúak járadéka)*: This is a social assistance scheme to ensure a minimum income during old-age in the absence of an old-age pension. The amount of the benefit is determined by the income of the person (and his/her partner or spouse). Conditions of eligibility:

- Reaching retirement age (62 years) for both men and women, and
- income combined with his/her spouse or partner is below 80% of the minimum oldage pension, or in case of a single person, below 95% of the minimum old-age pension.

The amount payable varies in such a way that it supplements the actual income to reach 80% of the minimum old-age pension per person for a couple or 95% for a single person.

Home Maintenance Support (*lakásfenntartási támogatás*): This is a means-tested benefit provided by the local government for a family or individual who lives in a home not exceeding a specified size, provided that there is no income from the use of that home. People can be eligible to this benefit by three rights:

- a) Normative home maintenance support according to the rules of the Act on Social benefits;
- b) If they participate in a debt-management procedure;
- c) Local home maintenance support according to the conditions specified by the local authority in a local decree.

A normative home maintenance support is provided if:

- the monthly income per person in a household does not exceed 150% the minimum amount of the old-age pension; and
- the acknowledged costs of home maintenance are equal to 20% or more of the total monthly income of the household

The acknowledged size of the flat is maximum

a) 35 m² in case of one-person households,



- b) 45 m2 in two-person households,
- c) 55 m2 in three-person households,
- d) 65 m2 in four-person households,
- e) if more than four people are living in the household then 65 m2 plus 5 m2 for each additional person but maximum the real size of the flat.

The minimum amount of the benefit is HUF 2,500 per month. The local authority can depart from these minimum rules and can specify more favourable conditions.

• Scope and scale

The following tables provide an indication of the relative scale and coverage of each benefit by showing the number of recipients and the expenditure on each benefit.

Table 5. Social benefits: recipients (as % of population)

	2005
Old-age benefit	16.28%
Temporary Widow(er)'s Pension	1.73%*
Permanent Widow(er)'s Pension	
Parental Pension	0.00%
Orphan's Allowance	1.11%
Invalidity Pension	8.00%
Invalidity Annuity	0.27%
Temporary Invalidity Annuity	0.12%
Disability Benefit	0.95%
Work Accident Sickness Benefit	=
Work Accident Annuity	=
Work Accident-related Disability Pension	-
Unemployment Benefit	1.18%
Pre-retirement Unemployment Assistance	0.06%
Incentive Benefit for Job-seekers	0.16%
Maternity Allowance	0.28%
Maternity Grant	0.91%
Child Care Allowance	1.61%
Child Care Fee	0.83%
Child Raising Support	0.47%
Family Allowance	12.75%
Regular Child Protection Benefit	6.68%
Family tax allowance	11.39%
Regular social benefit	1.43%
Nursing Fee	0.36%
Home Maintenance Support	1.95%

Notes: * The two type of widower's pensions together Source: Yearbook of Welfare Statistics HCSO, 2006



Table 6. Social benefit: expenditure

	2005*
Annual expenditure (million HUF)	3,175,864
as % of total expenditure	
Pension above retirement age	49.81%
Allowances for survivors	8.06%
Benefits of old age non-insured agricultural workers	0.20%
Retirement age	9.16%
Other benefits related to pension	0.99%
Benefits of persons with reduced working ability	2.21%
Maternity allowance	1.01%
Family allowances	6.14%
Child-care fee	2.28%
Child-care allowances, child-care-assistance benefits	2.41%
Sickness benefit	3.06%
Unemployment benefit	2.91%
Other benefits related to sickness	1.31%
Regular and non-regular assistance benefits	4.16%

Notes: *Social benefits at current prices; in this table we use the National Accounts classifications Source: National Accounts Hungary 2004-2005; HCSO 2007.

• Not strictly benefits

Advance on maintenance payments (tartásdíj megelőlegezése): This benefit is paid to the parent who takes care of the child if the child maintenance is temporarily irrecoverable by the other parent obliged to maintain the child, the person who takes care of the child cannot maintain the child, and if the income per person in the applicant's family does not exceed three times the current minimum amount of old-age pension. Its amount is equal to the amount of child maintenance decided by the court.

Irregular Child Protection Benefit (*rendkívüli gyermekvédelmi támogatás*) is paid to families with temporarily cash flow problems or facing emergency situations that seriously threaten their standard of living. The amount is designated by decree of the respective local government. In 2004 this benefit was paid with a total amount of 2,160,000 HUF, which results in an average payment of 8,000 HUF, aiding families with 270,000 children in total.

Debt-management Benefit (adósságcsökkentési támogatás): beside the home maintenance support, people with overdue debts can receive a cash benefit, transferred by local selfgovernments to the creditor. The amount of debt-management benefit is the result of an agreement between the local authority, the creditor and the beneficiary. The other pillar is debt management counselling, which is mandatory for beneficiaries.

Public Health Benefit (*közgyógyellátás*): Socially disadvantaged people may receive a Public Health Card by which he/she can obtain specific medicine and therapies free of charge. According to expected expenditure, in 2004 about half a million people made use of this benefit with a total amount of 22.7 billion HUF.



Temporary Benefit (átmeneti segély): This is a means-tested benefit provided by the local government and regulated by a local government decree. It can be provided to persons whose subsistence is occasionally or long-lastingly endangered. It can be provided occasionally or monthly. The local government can regulate the entitlement conditions, but the household income per person taken into account during the judgement of the claim cannot be lower than the old-age pension minimum, or 150 per cent of it in case of a one-person household. In 2004 the local authorities gave temporary benefit in 630 thousand cases with a total amount of 5 billion HUF

Funeral Support (temetési segély): This is a means-tested benefit provided by the local government and regulated by a local government decree. Somebody may receive a funeral support if he/she provided for the funeral of somebody although it was not his/her duty, or if it was his/her duty but bearing the funeral costs would endanger his/her existence. The local government can regulate the entitlement conditions, but the household income per person taken into account during the judgement of the claim cannot be lower than the old-age pension minimum, or 150 per cent of it in case of a one-person household. The amount of the funeral benefit cannot be lower than 10 per cent of the locally usual cheapest funeral. The local authority, in its local decree, can complete the benefits defined in the Act on Social benefits or can define other kinds of cash benefits as well. The local authority, in its local decree, can complete the benefits defined in the Act on Social benefits or can define other kinds of cash benefits as well.

Examples of other social benefits provided by local governments:

- Home renting support (lakbértámogatás),
- Interest-free social loan (kamatmentes szociális kölcsön),
- Meals support (étkezési támogatás),
- Local transportation support (helyi utazási támogatás).

1.4 Social contributions

In Hungary, social insurance can be divided into the two large categories of pension scheme and health insurance.

Since 1 January 1998, the Hungarian pension scheme has been financed jointly by the compulsory pension scheme of social insurance and, in addition, by private pension insurance. It is also possible to complete a social insurance pension through voluntary pension funds. In this sense, health insurance is not financed jointly, but through voluntary health funds, beside the compulsory social insurance, there is still an opportunity to obtain additional health provision. In 2004, the Pension Insurance Fund's revenue was 1,283,254 million HUF, and the Health Insurance Fund's revenue was 1,022,466 revenue from contributions.

Participation in the system of social insurance is compulsory, if legal relations provided by the law are established, the compulsory contractual insurance relations come into being. Both employers and employees, and also joint and private companies, and entrepreneurs have to make contributions both to the pension insurance and to the health insurance funds. The amount of contribution payable by both parties is calculated on the basis of the gross – before taxation – wages, income.



Pension insurance contribution (*nyugdíjjárulék*): In the case of pension insurance, the rate of contribution payable by employers is 18%, the rate of contribution payable by employees, if they are members of the compulsory pension scheme of social insurance only, is 8.5%, if they are also members of one of the private pension funds, then 0.5%. Members of private pension funds are obliged to pay 8% member fee to the private pension fund, above the 0.5% pension contribution. The member fee can be completed either by the employee or by the employer, up to 10%. There is an upper limit of pension contribution paid by employees, which equals the contribution payable after the gross average income threefold, in 2005 16,440 HUF (which equals the amount of contribution payable for 6,000,600 HUF in wages). In the case of voluntary pension funds, payment is unsolicited, there are no provisions of the law concerning the minimum or maximum amount, the minimum amount is defined by the statutes of the funds. Membership fees can be assumed by the employers.

Joint and private entrepreneurs are obliged to pay both the 18% pension contribution payable by employers and the 0.5%+8% pension contribution payable by employees.

Health insurance contribution (*egészségbiztosítási járulék*): In the case of health insurance, employers pay 11%, while employees pay 4% health insurance contribution. Joint and private entrepreneurs are obliged to pay both the 11% payable by employers and the 4% payable by employees.

In the case of joint businesses and entrepreneurs, health insurance contribution is calculated on the basis of the income paid to the entrepreneur as personal agency, but at least the amount of the minimum wage. In the case of private entrepreneurs, contribution is calculated on the basis of the entrepreneurial withdrawal, in the case of presumptive taxpayers, the income presumptive tax is based on at least the amount of the minimum wage.

For those who pay simplified business tax (EVA) contribution payable is calculated on the basis of the minimum wage, but they can choose to declare higher income. If apart from having a partnership or a private enterprise, someone has another legal relation providing social insurance (employee, full-time student etc.) social contribution is calculated on the basis of income actually received, in the case of EVA, contributions do not need to be paid. Joint and private entrepreneurs are exempt from paying contributions if they receive sick-pay, maternity allowance, child-care allowance, child rising support, child-care fee, nursing fee, except if they personally continue their activities during this time. Contributions are not to be paid for tax-exempt payment in kind.

Pensioners employed in their own right, pay neither pension nor health contribution. If a pensioner, apart from the pension, receives income subject to contribution payment (as an employee or an entrepreneur), contributions payable by employees (0.5%+8% and 4%) do not need to be paid, but he/she is still obliged to fulfil obligations of employers (18% and 11%). (Reasonably, as an employee the employer and as a partner or private entrepreneur, the entrepreneur.)

Flat rate health contribution (tételes egészségügyi hozzájárulás): Fixed health contributions are payable by employers according to their employees, by private entrepreneurs, those subject to EVA also included, by those having a legal relation of member, elected functionaries, outworkers, agents, assisting family members and by those receiving income substituting benefit for the unemployed, but only on the basis of one legal relation at a time. It is not payable during the time one receives sick pay, maternity allowance, child-care fee, child-care allowance, child raising support, during the time of unpaid holiday and detention and in the case of private entrepreneurs who receive widows' pension or a pension in their own right.



Up to 30 October 2005 it amounted to 3 450 HUF a month, after the 1st of November 1 950 HUF a month. In the case of part-time employment, the amount of contribution to be paid has to be made proportionate, but is at least 50%.

Other income related contributions

Employer contribution is calculated on the basis of the gross wage – before taxation – accounted and paid to the employee with regard to his/her employment, including severance pay, jubilee reward, fees paid during the time of sick-leave, taxable payment in kind, meal contribution, holiday contribution and 25% of the tax payable for a company car provided with regard to employment. The employer contribution is payable by the employer. The rate of contribution was 3% in 2005.

Employee contribution is calculated on the basis of gross wages received from the employer. Exempted are those who receive or become entitled to receive old-age pension, disability pension or pension for work accident related disability, while being in employment. Employees are obliged to pay the contribution. Its rate is 1%.

Entrepreneurial contribution is paid by joint business on the basis of the income paid to the entrepreneur with regard to his/her personal assistance, by private entrepreneurs on the basis of the entrepreneurial withdrawal and by private entrepreneurs subject to presumptive taxation on the basis of the minimum wage. The minimum of the contribution base is always the amount of the minimum wage provided by the law.62 Exempted are those who receive or become entitled to receive old-age pension, disability pension or pension for work accident related disability and those who are employed at the same time and work at least 36 hours aweek. The rate of contribution is 4%.

Vocational training contribution is payable by every economic society and private entrepreneur, except for those paying EVA or flat-rate tax. Contribution is calculated on the basis of expenditure on wages, its rate is 1.5%.

In 2005, 172,610 million HUF employer contribution, 52,264 million HUF employee contribution, 6,524 million HUF entrepreneurial contribution and 27,662 million HUF vocational training contribution were paid into the Labour Market Fund.

• Scope and scale

The following tables show the number of contributors and the composition of social contributions, including social contributions, as a percentage of overall revenue.



Table 7. Social contributions: contributors (as % of population)

	2005
Social contributions	
Pension insurance contribution	~40%
Health insurance contribution	~40%
Flat rate health contribution	n.a.

Notes:

Source: Own estimates

Table 8. Social contributions: revenue

	2005
Social contributions (million HUF)	2,494,254
as % of total revenue	
Pension insurance contribution	56.72%
Health insurance contribution	37.89%
Flat rate health contribution	5.39%
Employer contribution	6.92%
Employee contribution	2.10%
Entrepreneurial contribution	0.26%
Vocational training contribution	1.11%

Source: Home-page of the Hungarian State Treasury. 2006

1.5 Taxes

Direct taxes

Personal income tax (*személyi jövedelemadó*): The system of personal income tax was introduced in 1988. The system in itself has basically remained unchanged but several simplifications were carried out over the years (out of the eleven originally introduced tax rates, by 2005 there remained only two). However, it is still typical of the system that types of incomes are differentiated in detail; there are tax allowances of several kinds and members of certain sectors, primarily those working in the field of agriculture (primary producers, small-scale producers, assisting family members) enjoy differential treatment.

In 2005, altogether 997,841 million HUF of income tax was collected, that was the second most important source of revenue for the budget. Every citizen is obliged to file a tax return at the end of the tax year, which can be done in two different ways: either by self-assessment or, if one has a workplace and has other income only from very few and well defined sources, one can ask the workplace to fill in and file a tax return for him/her. With reference to the year 2003, about half of the citizens filed a tax return on their own, while the other half asked the employer to do so. Other forms of filing a tax return concern only a very small group. As it will turn out below, the Hungarian tax regulations are rather complex, so there is an option of filling in a detailed data sheet and asking the tax authorities to calculate the amount of tax to be paid. Small-scale producers who work in the field of agriculture and whose yearly revenue is between 600,000 and 3,000,000 HUF can also make a simplified declaration of tax return, which substitutes for the filing of the personal tax return.

In Hungary, personal incomes are taxed in three different ways. Incomes to be consolidated are taxed according to the tax table. Tax allowances are only demandable on the basis of the amount of tax calculated this way. (Earlier, in certain cases, allowances were deductible from the



taxable income, but this has disappeared from the prevailing regulations.) Incomes taxed separately can be divided into two groups. In the first group there are income sources of different kinds, in this case separate tax rates apply. In the second group, we talk about flatrate taxation. This is only a choice in the case of certain activities and even then there are further conditions to be fulfilled.

Income-types to be consolidated:

- Wage income from employment
- Social security benefits with regard to employment, like sick pay, child-care fee, maternity allowance
- Income originating from casual work
- Income received in return for foreign service
- Unemployment benefit, incentive benefit for job seekers, complementary wages, wage substituting benefit, work accident allowance, compensation substituting wage income from employment
- Income originating from being an elected functionary, a member of Parliament or a Local Government, subsidies received in connection with these activities (meal, clothing, holiday, housing contributions), taxable insurance fees due to these activities, income originating from securities.
- Income originating from refund of expenses above the amount of certified expenses.
- Part of severance pay (for the tax year or earlier) concerning the year 2005.
- Withdrawal of a private entrepreneur
- Income gained by an assisting family member in a joint business.
- Income originating from activity of agricultural primary producers. This kind of income needs to be declared only if it is more than 600,000 HUF.
- Income originating from intellectual activities; that is income received for a composition that enjoys legal protection of copyright and that was earned outside of employment or enterprise.
- Other income originating from independent activities (not carried out as a private entrepreneur), not intellectual income.
- Non-taxable emoluments (Incomes of this kind are to be consolidated, which means that they are part of the tax base, but tax can be reduced by the amount of tax calculated for this kind of income.): child-care allowance; child raising support; foster parent fee; nursing fee as determined by the act on social provisions; social caretaker fee received outside of employment (maximum 48,000 HUF a year); allowance for students taking part in vocational training (maximum 15% of the minimum wage); scholarship that is the legal due of full-time students in



higher education, schoolbook and lecture notes support, residence support substituting for accommodation in student hostels; etc.

- Income not qualifying as provision of service (not pension-like income) paid by a private pension insurance company to the beneficiary
- Income originating from the alienation of land received by way of compensation

The tax base is made up of the incomes to be consolidated (including non-taxable emoluments). Tax is calculated on the basis of the tax base, according to the tax table.

Tax table:

Income bracket tax rates 0 – 1,500,000 HUF 18 %; above 1,500,000 HUF 38 %

Tax allowances:

Tax refund calculated on the bases of income from wages. Income from wages includes the following:

- income from wages due to employment
- social security provisions due to employment, like sick pay, child-care fee, maternity allowance
- income received for foreign service
- income originating from refund of expenses above the amount of certified expenses.
- unemployment benefit, incentive benefit for job seekers, complementary wages, wage substituting benefit, work accident allowance, compensation substituting wage-like income from employment
- wage-like income to be declared, raised abroad

Tax refund is due to a person whose total income, i.e. types of income to be consolidated, together with the income that is taxed separately, but without income originating from the selling of real-estate, is not more than 1,950,000 HUF. The tax refund is 18% of the income from wages but at maximum 9,000 HUF a month. In the case of income between 1,350,000 and 1,950,000 HUF, the maximal tax refund decreases linearly.

If the total income is not more than 1,302,400 HUF, the taxpayer can expect an additional tax refund. The additional tax refund is 18% of the difference between the actual monthly income from wages and 50,000 HUF, but maximum 1,260 HUF a month. In the case of gross income between 1,000 000 and 1,302,400 HUF, the maximal additional tax refund linearly decreases.



- Tax according to the tax table concerning non-taxable emolument
- -19% of the income not qualifying as provision of service (not pension-like income) paid by a private pension insurance company
- Amount to be deducted due to serious disability, 2,000 HUF a month.
- Tax allowance received after the amount paid to a voluntary pension fund. 30% of the amount credited in the tax year, but maximum 100,000 HUF, except if the taxpayer reaches retirement age before 1 January 2020, in that case 130,000 HUF.
- Tax allowance received after the amount paid to a voluntary health fund. 30% of the amount credited in the tax year, but maximum 100,000 HUF, except if the taxpayer reaches retirement age before 1 January 2020, in that case 130,000 HUF. The amount of the two lines above, added up, cannot be more than 120,000 or 150,000 HUF.
- 10% of the amount tied up in a voluntary health fund, if it is at least for 24 months. Maximum 100,000 HUF or 130,000 HUF together with the amount of allowances claimed by right of payments made to the voluntary health found.
- Allowance for preventive service provided by a voluntary health fund, 10% of the amount paid.

Maximum 100,000 HUF or 130,000 HUF together with the amount of allowances claimed by right of having tied up amount.

- Allowance for pension contribution paid on the basis of agreement with the employer. 25% of the amount paid.
- -25% of the membership fee paid on the basis of agreement with the employer to a private pension fund.
- -30% of complementary payment above the membership fee paid to a private pension fund.
- 25% of income originating from intellectual activities, but maximum 50,000 HUF.
- Allowance for the amount spent on paying off a loan for buying accommodation. In the case of loan agreements made with a loan-office after 31 December 1993. The allowance is 40% or 30% of the capital, the interest and the additional costs to be paid off. It is 40% if the interest of the loan received was subsidised by the state; the amount of loans received was not more than 15,000,000,000 HUF and the loan was spent on buying newly built accommodation inland. It is 30% if the amount of loans received was not more than 10,000,000 HUF but the conditions to claim 40% have not been fulfilled. The maximum of the allowance is 120,000 HUF. The allowance can be claimed either by the debtor or the fellow-debtor but it cannot be shared. The allowance can be claimed by those, whose taxable income (that is types of income to be consolidated, together with the income that is taxed separately, but without income originating from the selling of real-estate) is not more than 4,000,000 HUF. If the income is more than 3 400,000 HUF the amount of allowance is to be decreased by 20% of the amount of income above the 3,400,000 HUF level. If one's spouse or partner in life (who is partner in dept and



owner of the real estate, too) is entitled to child-care allowance for more than six months in the tax year, the competence level is 5,000,000 HUF, but if the income is more than 4,400,000 HUF the amount of allowance is to be decreased by 20% of the amount of income above the 4,400,000 HUF level. Tax-allowance can be claimed in the tax year when the first payment was made and in another four tax years.

- Allowance for amounts paid towards tuition fees in higher education. 30% of the tuition fee paid in the tax year for the first basic training of a student, maximum 6,000 HUF a month and 60,000 HUF a year per student.
- -30% of tuition fees in adult education, but maximum 60,000 HUF. It can be claimed if the total income is not more than 4,000,000 HUF. If the income is more than 3,400,000 HUF the maximum amount of allowance is to be decreased by 10% of the amount of income above the 3,400,000 HUF level.
- Allowance for the amount spent on buying computer equipment within the programme called Sulinet. Maximum 60,000 HUF, together with the tuition fee in adult education. It can be claimed if the total income is not more than 4,000,000 HUF. If the income is more than 3,400,000 HUF the maximum amount of allowance is to be decreased by 10% o the amount of income above the 3,400,000 HUF level.
- Allowance for primary producers in agriculture The allowance is the amount of tax payable for the income raised by way of primary production or small-scale production, but maximum 100,000 HUF.
- Allowance for life and retirement insurance fees. In the case of insurance paid for a period of ten years or longer, it is 20% of the fee paid in the tax year. If the fee paid was higher than in the previous tax year, then an additional 10% of the difference can be claimed. The allowance can be maximum 100,000 HUF.
- Allowance for payments made towards public interest organisations, the Church, with the aim of assumption of obligations for purposes of public interest, 30% of the amount paid, in the case of prolonged donation an additional 5%, but maximum 50,000 HUF.
- Allowance for payments made towards public interest organisations of high priority, 30% of the amount paid, in the case of prolonged donation an additional 5%, but maximum 100,000 HUF.
- Family tax allowance for dependents. Dependents are considered to be those after whom family allowance is received, who receive disability allowance, and an embryo from the 91st day of the pregnancy. Amount of allowance:

In the case of 1 dependant 3,000 HUF a month

In the case of 2 dependants 4,000 HUF a month

In the case of 3 or more dependants 10,000 HUF a month



In the case of consorts and common-law wives and husbands, family allowances can be shared because, in this way, more allowance can be claimed.

Family allowance can be claimed in full up to 8,000,000 HUF total income. Above this income level, the part of allowance that is above the 20% of the income above the 8,000,000 HUF can be claimed.

The total value of the allowances in italics cannot be more than 100,000 HUF in the case of people whose total income is below 6,000,000 HUF. If the total income is between 6,000,000 and 6,500,000 HUF, the maximum of the allowance group linearly decreases. In the case of income above the highest limit, these allowances cannot be claimed. The tax calculated on the basis of income types to be consolidated and decreased by the amount of tax allowances, is completed with the tax payable for the separately taxed income.

Separately taxed income types are the following:

- Flat-rate taxation income of private entrepreneurs: In the case of flat-rate taxation, the accountable cost ratio is fixed, the ratio itself is defined by the law, depending on the type of activity, it is between 40-87 %. Tax is payable for the revenues remaining after the cost ratio was deducted. The amount of tax payable depends on the income: 200,000 HUF 12,5%; 200,000 600,000 HUF 25%; 600,000 800,000 HUF 30% above 800,000 HUF 35%
- Income of private entrepreneurs, liable to entrepreneurial personal income tax and entrepreneurial dividend tax. The personal income tax of entrepreneurs is 16% of the entrepreneurial tax base. The entrepreneurial tax base basically means the revenues remaining after costs were deducted but the exact system of rules is rather complex. The entrepreneurial dividend base is the entrepreneurial income remaining after taxation. Tax payable for the entrepreneurial dividend base is 20% up to 30% of entrepreneurial withdrawal; above that it is 35%.
- Flat-rate taxation income of small-scale agricultural producers. The accountable cost ratio is fixed, depending on the type of activity; it is between 80-94%. The amount of tax payable is the same as in the case of flat-rate tax of private entrepreneurs.
- Flat-rate taxation income of hosts receiving paying guests The tax amounts to 32,000 HUF a year, out of which 80% is payable in the form of personal income tax and 20% as flat-rate health contribution. The amount of tax payable does not depend on whether guests were received throughout the year or only part of the year.
- Income originating from the sale of real-estate. Tax is 20%. Does not need to be declared, if the real-estate was obtained before 1988, or if there was no income originating from it. Allowance for getting an apartment is the due of those who buy or build real-estate inland for themselves or for near relatives, either within 12 months before the sale or within 60 month afterwards.37 The amount spent on purchasing can be deducted from the income originating from sale.



- Income originating from the sale of movable property. Tax is 20%. Tax-exempt, if the income originating from the sale of movable property is not more than 200,000 HUF. If it is more than it needs to be declared but 40,000 HUF can be deducted from the tax.
- Income originating from life-annuity contract. Tax needs to be paid if the life-annuity contract was made after 1996 and life-annuity is received without compensation. The tax is 35%. It is tax-exempt, if the contract ensuring support for life, the testamentary contract or the life-annuity contract was made with a private person. It is also tax-exempt if the contract ensuring support for life, the testamentary contract or the life-annuity contract was signed between a pensioner and an organisation financed by the state budget or a local government. Taxexempt if life-annuity was received in return for real estate, right of property or movable property.
- Income originating from rate of exchange gain. Tax is 25%.
- Income originating from securities lending. Tax is 20%.
- Income raised by right of dividends Tax is 20% up to 30% of the financial deposit of the person entitled to receive the dividend. Above that it is 35%.
- Income raised by right dividend, taxable abroad. Tax is 20%. Tax justifiably paid abroad can be deducted, but if Hungary does not have a convention ruling out double taxation, at least 5% of the tax has to be paid in Hungary.

etc.

Tax liability is the total of the amount of tax payable for incomes to be consolidated reduced by allowances and the amount of tax payable for incomes taxed separately. Tax return does not need to be filed by those who only have tax-exempt income. Tax-exempt incomes are the following:

- pensions
- severance pay received with regard to the cessation of the right for widow's pension
- supplementary income
- income substitution for the unemployed
- subsidy received prior to beginning independent activities, joining an economic society or founding an economic society, based on provisions of the law or international contracts
- maternity benefit given by the state, with regard to social considerations or within the system of social security
- social benefits
- temporary benefits



- funeral support given in accordance with the provisions of the social law by the local government, by an interest organisation or by the employer
- home maintenance support, subsidy for rental of accommodation
- orphans' allowance
- foster-parent fee, special provision due to foster parents
- after-care provision
- old age allowance
- personal allowance of the blind
- disability allowance, travelling support for seriously disabled private persons as provided by the law
- family aid for the relatives of conscripts and those carrying out civil service, monetary supply to disabled serviceman, national fee for care as provided by the law
- income of interest payment received from a private person or from a pay-office, if it is maximum 5% more than the base rate of the central bank interest
- debt management service

Among tax-exempt incomes, payment in kind supplementing wages also needs to be mentioned. One of the most frequently used forms is the provision of luncheon vouchers. These are tax- and contribution payments exempt both for the employer and for the employee up to 8,000 HUF if they ensure warm meals and up to 4,000 HUF if they ensure cold meals. Luncheon vouchers can also be received by students taking part in vocational training and exemployees that are already pensioners. Season tickets for local travelling are also tax-exempt. Another significant item is the provision of holiday contributions.

These can be given for free, either in the form of holiday services or in the form of holiday checks and can also be used by near relatives, either together with or separately from the employee. Its limit is the amount of the minimum wage, in 2005 57,000 HUF. Schooling support can also be provided tax-exempt for the parents at the beginning of the school year, up to 17,000 HUF. Finally, so-called "presents of little value" can also be given to employees, up to 10% of the minimum wage. The most important task is the simulation of the personal income tax. This is a realizable task but following from the complexity of the system, simplifications will surely have to be applied. The necessary simplifications and exact methods of simulation can only be defined once a decision has been made about the database to be used as the basis of the simulation.



Corporate tax (*társasági adó***)**: Corporate tax is paid by economic societies, co-operatives, non-profit companies, foundations etc. on the basis of their yearly profit. The tax rate is 16%. In 2005, there was 430,051 million HUF corporate tax collected by the budget.

At the same time, it must be clear that in Hungary, the number of small-scale enterprises is very high, but a great proportion of these is not an economic enterprise in the classical sense but simply a way of fending for oneself or being connected to the labour market and as such, the revenues, expenses, rates and taxes of these companies are in fact, completely or in part, household revenues, expenses and taxes. However, the ratio of these among corporate tax payers has been decreasing since the introduction of the simplified business tax discussed below and almost all company tax is paid by economic societies in the real sense.

Simplified business tax (*egyszerűsített vállalkozói adó*): The simplified business tax (EVA), as a form of taxation was introduced on 1 January 2003. EVA addresses small-scale enterprises, not only with the aim of reducing tax burdens but also in order to simplify administration. This form of taxation provides an opportunity for the legal transformation of revenues into freely utilizable income, it is easy to calculate with and there are relatively less rates and taxes to be paid. In 2005, 91,365 million HUF was paid as EVA to the budget. In the previous year there were 82,848 private and joint businesses included in EVA, 54% of those are private entrepreneurs, 37% are joint businesses with no legal entity (deposit companies) and 10% are joint businesses with legal entity (limited liability companies).

The main characteristics of those belonging to EVA are made quite clear by the provisions of the law, too. EVA, as a form of taxation, can be chosen by private entrepreneurs, unlimited partnerships, deposit companies, limited liability companies, co-operatives, lawyers' offices etc., if the taxpayer carried out its activities in the previous tax year continuously, without transformation and its revenues in the two previous tax years and, as reasonably expectable, in the tax year are not more than – since 2004 already – 25,000,000 HUF. Economic societies can choose this form of taxation, if every member of the society is a private person and the economic society does not have a share in another economic society. There are some further restrictions ordained by the law, for example, it is only possible to become subject to EVA if tax authorities have not previously imposed a fine due to negligence on the company, if the company does not produce and does not circulate products imposed by excise tax, does not carry out any activities that require the permission of the Hungarian Financial Supervisory Authority or the Gaming Board etc.

Calculation of EVA is based on the amount of total revenues together with the VAT. The tax rate is 15%. Those paying EVA are exempted from paying the VAT, they do not have to pay entrepreneurial personal income tax and if they have no other revenues, they do not have to file a personal income tax return.

From the above, it emerges that the choice of EVA is reasonable for those enterprises that obtain revenues without much expense, or in the case of which the expenses cover partly entrepreneurial and partly household demands. Although it cannot be precluded, especially within a couple of years of the introduction of a new method of taxation, that certain people chose this opportunity by mistake, we can still assume that, in the case of the majority of the companies, the results remaining after taxation can predominantly be considered as incomes of households and EVA can be regarded as a tax payable by households.

Local taxes (*helyi adók*): Problems of local taxes are the result of territorial division. There are more than 3100 local governments in Hungary, all of which might have their own provisions concerning taxtypes below. They have a legal right to levy taxes and even though there is a maximum limit, the actual regulations are framed by the local governments.



Indirect taxes

Value Added Tax: In Hungary, VAT was introduced in 1988. VAT is to be paid after each and every product and service sold inland and after the import of products. VAT is payable both by private persons and by legal entities, which means that there are only estimates available concerning the size of VAT paid by the population. In 2005, 1,785,316 million HUF VAT was collected by the central budget, out of which about 86% was paid by the population. VAT revenues form the major source of income for the budget. The general amount of VAT is 25%, with the exception of the products and services listed in the following table. (more details in the Feasibility Study)

Excise tax: In 2005, 670,673 million HUF excise tax was collected by the budget, most of which can be considered as household payment. The tax on fuels certainly concerns the transport and delivery sector to a high degree and the burdens of the sector are cast on the population only in an indirect manner.

Environmental protection fee: In 2005, 3,155 million HUF environmental protection fee was collected by the budget. Environmental protection fee is payable by the circulator or the importer when the products listed below are imported or put on the market for the first time.

- other crude oil products
- rubber tyre
- refrigerator, coolant
- wrapping
- battery
- advertising medium on paper
- electric and electronic equipment

The larger part of the sum, either directly or indirectly burdens the population but one part is divided between different economic organisations. No estimates are available about the proportion of this.

Charge for environmental load: Charge for environmental load is payable by those, who, with an official permission, burden the environment by letting a certain substance to the air, to the surface of waters, to periodical watercourses, or to the ground. The tariffs, once again, are calculated with the help of complex formulas. Certain service providers, who meet the needs of the population, for example those providing district heating, are exempted from the charges. At the same time, in the case of the usage of sewers, it is the private consumer who bears these costs. In 2004, 6.5 billion HUF were collected (of 14 billion planned) as charge for environmental loads. It is hard to make a precise estimate but probably only a small proportion of these revenues come from households.

Gambling tax: In 2005, 66,377 million HUF gambling tax was collected by the budget. According to the law, the following are considered as games of chances: games played drawing



lots, the operation of slot machines and casinos, betting on horses or other things, out of which the organisation of lottery, football-pool, bingo and horse-race is state privilege. The tax is payable by the organiser of the game of chance.

Registration tax: The registration tax was introduced on 1 February 2004. It implied the replacement and modification of the previously imposed excise tax concerning motor vehicles. The tax is payable by the new owner, either a natural person, or a legal entity, after every motorcar and caravan put into traffic. It is impossible to tell exactly how much of the given tax collected by the budget, 68 279 million HUF in 2005, is coming from households, because in the case of small companies private property and company property cannot be keenly separated. The amount of tax payable depends on the type of the engine, the cubic capacity of the cylinders and on the environmental category the car is included in.

Energy tax: Energy tax was introduced on 1 January 2004. Fees are to be paid according to the amount of electric power and natural gas. Energy tax is payable by public-utility companies selling energy to public-utility consumers, by energy traders selling energy to authorized onsumers, by authorized consumers buying or importing energy from a producer and by energy producers generating energy for their own purposes. In 2005, 12 732 million HUF energy tax was collected by the central budget.

• Scope and scale

The following tables show the number of taxpayers and the composition of taxes, including social contributions, as a percentage of overall tax revenue.



Table 9. Taxes: taxpayers (as % of population)

	2005
Direct taxes	
Personal income tax	30%
Corporate tax	1.2%
Simplified business tax	1%

Notes:

Source: Source: Hungarian Tax and Financial Control Administration, 2005

Table 10. Taxes: revenue

	2005
Annual revenue (million HUF)	10,625,789
Direct taxes	
Personal income tax	9.39%
Corporate tax	4.05%
Simplified business tax	0.86%
Indirect taxes	
Value Added Tax	16.80%
Excise tax	6.31%
Environmental protection fee	0.03%
Gambling tax	0.62%
Registration tax	0.64%
Energy tax	0.12%

Notes:

Source: Hungarian Tax and Financial Control Administration, 2005

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 (e.g. Value Added Tax). Others are not possible to simulate accurately with the available data (old-age benefits, unemployment benefits). 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. Tables 11. and 12. classifies each of the main taxbenefit instruments (and some minor ones introduced above) into one of these groups and provides a brief explanation as to why the instrument is not fully simulated if this is the case.



Table 11. Simulation of benefits in EUROMOD

	Variable name(s)	Treatment in Euromod 2005	Why not fully simulated?
Old-age benefit	coPOA	I	No data on contribution history
Early Retirement Pension	coPOA	I	No data on contribution history
Advanced Pension	coPOA	I	No data on contribution history
Temporary Widow(er)'s Pension	coPSU	I	No data on contribution history In the EU-SILC database if the survivor's benefits paid after the
Permanent Widow(er)'s Pension	coPSU	I	standard retirement age these benefits are included under the old age benefits.
Parental Pension	coPSU	I	No data on contribution history
Orphan's Allowance	coPSU	I	No information about the eligibility conditions
Absence Fee	coBHL	I	Data available is not sufficient to simulate all eligibility conditions
Sickness Benefit	coBHL	I	Data available is not sufficient to simulate all eligibility conditions
Invalidity Annuity	coPDI	I	No information on disability
Temporary Invalidity Annuity	coPDI	I	No information on disability Data available is not sufficient to simulate all eligibility conditions
Disability Benefit	coPDI	I	Data available is not sufficient to simulate all eligibility conditions
Work Accident Sickness Benefit	coBHL	I	No information about the sickness
Work Accident Annuity	coBHL	I	No information about the sickness
Work Accident-related Disability Pension	coPDI	I	No information about the sickness
Unemployment Benefit	coBUN	PS	No data on contribution history (coded (PS) but currently switched off)
Pre-retirement Unemployment	coBUN	I	No data on contribution history
Assistance Incentive Benefit for Jobseekers	coBUN	I	No data on contribution history
Maternity Allowance	coBMACT	I	No data on contribution history
Maternity Grant	co_bmanc	S	
Child Care Allowance	co_bcenc	S	
Child Care Fee	coBCCCT		
Child Raising Support	co_bcclt	S	
Family Allowance	co_bchnm	S	
Family tax allowance	coXED		
Regular Child Protection Benefit	co_bchmt	S	
Old-age allowance	co_poamt	S	
Regular benefit	co bsa00	S	
Home maintenance	co bsaho	PS	No information about the size of fla
support		= ~	and the size of the
Nursing fee	-	I	No information about the eligibility conditions

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



Table 12. Simulation of taxes and social contributions in EUROMOD

	Variable name(s)	Treatment in Euromod 2005	Why not fully simulated?
Personal	co_tin	PS	No information about all of the tax credits
income tax			
Corporate tax	-	E	No information available
Simplified business tax	co_tbs	S	No information about the type of the self- employment, but we estimate the number of the tax payers. Every eighth self-employment choosed this type of tax paying in 2005. (~100 000 person or firm)
Local taxes	-	E	No information available
Value Added	-	E	No information available
Tax			
Excise tax	-	E	No information available
Environmental	-	E	No information available
protection fee			
Charge for	-	E	No information available
environmental load			
Gambling tax	-	E	No information available
Registration	-	E	No information available
tax			
Energy tax	-	E	No information available
Employee	co_tscee	S	
Social			
Insurance			
Contributions			
Employer	co_tscer	S	
Social			
Insurance			
Contributions			
Self-employed	co_tscse	S	
Social			
Insurance			
Contributions			

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

2.2 Simulated policies and order of simulation

2.2.1 Simulated policies

2005 is the first simulated year of the hungarian policies in the EUROMOD, see the order of simulation below.

2.2.2 Order of simulation

• Order of simulation in 2005

The following table shows the order in which policies of the Hungary system are simulated. This table is extracted from the EUROMOD parameter sheets spine hu 2005.

Table 13. EUROMOD Spine: order of simulation, 2005

Policy	Description	Main output
IBEN_UE_HU	unemployment benefit (munkanélküli járadék), currently switched off	co_bunct
SBEN_MaterGrant_HU	maternity grant (anyasági támogatás)	co_bmanc
SBEN_ChCareAll_HU	child care allowance (gyermekgondozási segély)	co_bccnc
SBEN_ChRaiseSup_HU	child raising support (gyermeknevelési támogatás)	co_bcclt
EESIC_HU	employee social insurance contributions	co_tscee
ERSIC_HU	employer social insurance contributions	co_tscer
SESIC_HU	self-employed social insurance contributions	co_tscse
IT_HU	personal income tax (személyi jövedelemadó)	co_tin
EVA_HU	simplified business tax (egyszerűsített vállalkozói adó)	co_tbs
SBEN_CB_HU	family allowance (családi pótlék tartásdíj)	co_bchnm
SBEN_ChProt_HU	regular child protection benefit (rendszeres gyermekvédelmi támogatás)	co_bchmt
SBEN_SA_HU	social assistance (szociális segélyek)	co_bsa

In the hungarian system there are four means-tested benefits that can be simulated (these four benefits are in two policies: <code>SBEN_ChProt_HU</code>, <code>SBEN_SA_HU</code>). Regular child protection benefit (<code>SBEN_ChProt_HU</code>); old-age allowance, regular benefit, home maintenance support (<code>SBEN_SA_HU</code>) all depend on income after income tax (<code>IT_HU</code> and <code>EVA_HU</code>) and employee and self-employed contributions (<code>EESIC_HU</code>, <code>SESIC_HU</code>) have been deducted. They are therefore simulated after the simulation of income taxes and contributions.

The other four simulated benefits are non means-tested benefits. These maternity or child related benefits (SBEN_MaterGrant_HU, SBEN_ChCareAll_HU, SBEN_ChRaiseSup_HU, SBEN_CB_HU) depend on the age of the child or the number of the dependent children in the household. So these non-means-tested benefits must be simulated first.



2.3 Social benefits

2.3.1 Maternity grant (SBEN MaterGrant HU)

Resident women who give birth, had previously participated in prenatal care at least 4 times, and have no insurance are entitled to a one-off lump-sum payment of 225% of the minimum old-age pension HUF 55,575 or 300% = HUF 74,100 in case of twins.

• Definitions

The unit of analysis is the family (TU: cbfam_hu) This comprises the head, his spouse (TU: cbfam_hu/spouse) or partner (TU: cbfam_hu/CohabPartner) and their own children (TU: cbfam_hu/own child)

TU: cbfam_hu

	2005
Spouse	1
CohabPartner	1
own_child	1

This benefit isn't depend on other incomes. Income test isn't necessary.

• Eligibility conditions

This benefit is paid if at least one one-year old child lives in the family. (Mod: co_elig / elig_cond)

MOD: co_elig - Eligibility Module
$$\frac{2005}{\text{Elig cond}}$$

• Income test

Not necessary

• Benefit amount

The maternity grant is an anual amount (period = y), i.e. in the Euromod monthly output it is divided by 12)



MOD: co ArithOp - Benefit Calculation

		period	2005
one	member	Y	55575

2.3.2 Child care allowance (SBEN ChCareAll HU)

A flat-rate benefit to parents who stay away from work to care for their children under the age of 3 (under age of 10 in case of permanently ill or severely disabled children) or for grandparents who care for their grandchildren aged between 1-3 years in the household of the parent. The monthly amount is equal to the minimum old-age pension of HUF 23,200.

• Definitions

The unit of analysis is the family (TU: ccfam_hu) This comprises the head, his spouse (TU: cbfam_hu/spouse) or partner (TU: cbfam_hu/ CohabPartner) grandparents (TU: cbfam_hu/DepParent) and their own children (TU: cbfam hu/own child).

TU: ccfam_hu

	2005
Spouse	1
CohabPartner	1
own_child	1
DepParent	1
cd min age	0
cd agelow	2
cd agehigh	9
cd Disabled	1

Dependent children are defined in the taxunit as age<=2 (TU: cbfam_hu/cd_agelow) or age<=9 if disabled (TU: cbfam_hu/cd_agehigh; /cd_Disabled), grandparents are defined in the taxunit as parents of the child's mother or father.

• Eligibility conditions

Eligible are units where at least one adult person does not work more than 4 hours (colhw<=4). and is caring for a 0-2 year old child if the person is the parent (IsParentofDepChild), or a 1-2 year old child (#1 AgeMin=1) if the person is the grandparent (!IsParentofDepChild)

MOD: co_elig - Eligibility Module

	2005
	(!{IsDepChild} & {coLHW<=4}) & (({nDepChInTu>0} &
	{IsParentOfDepChild}) ({nDepChInTu>0}#1 &
Elig cond	!{IsParentOfDepChild}))



Income test

Incomtest is not applicable

• Benefit amount

The monthly amount is equal to the minimum old age pension: 24,700 HUF

2.3.3 Child raising support (SBEN ChRaiseSup HU)

Benefit for parents who raise three or more children in their own home, if the youngest child is between 3 and 8 years old. The monthly amount is equal to the minimum old-age pension, irrespective of the number of children.

• Definitions

The unit of analysis is the family (TU: cbfam_hu) This comprises the head, his spouse (TU: cbfam_hu/spouse) or partner (TU: cbfam_hu/CohabPartner) and their own children (TU: cbfam_hu/own child).

TU: cbfam_hu

	2005
Spouse	1
CohabPartner	1
own_child	1
cd_min_age	0
cd agelow	16
cd_agehigh	24
cd_InFTsed	1
cd_Married	-1
cd Cohab	-1

Dependent children are defined in the taxunit as aged 16 or younger (TU: cbfam_hu/cd_agelow) or 24 or younger (TU: cbfam_hu/cd_agehigh) if they are in full time secondary education (TU: cbfam_hu/cd_InfTsed), not married (TU: cbfam_hu/cd_Married) and not cohabiting (TU: cbfam_hu/cd_Cohab).

• Eligibility conditions

Eligible are families with at least 3 dependent children (nDepChInTu>=3) where there is at least one child with 3<=age<=7 (nDepChInTu>0, #1_AgeMin=3, #1_AgeMax=7) and no child with 0<=age<=2 (nDepChInTu=0, #2_AgeMin=0, #2_AgeMax=2) (i.e. a 3-7 year old child is the voungest).

MOD: co elig - Eligibility Module



2005

Elig cond

{nDepChInTu>=3} & {nDepChInTu>0}#1 & {nDepChInTu=0}#2

• Income test

Income test is not applicable

• Benefit amount

The monthly amount is equal to the minimum old age pension: 24700 HUF

MOD: co_ArithOp - Benefit Calculation

	period	2005
one member	M	24700

2.3.4 Family allowance (SBEN CB HU)

It is paid to the parent from the birth of the child to the termination of studies in the compulsory education system (usually 0-16 years), and then during secondary school education or vocational training of the child (up to 24 years of age). Its amount depends on the number of children in the family, whether a single-parent family or not and whether the child is disabled. In the month of July double amounts are paid in order to support schooling.

• Definitions

The unit of analysis is the family (TU: cbfam_hu) This comprises the head, his spouse (TU: cbfam_hu/spouse) or partner (TU: cbfam_hu/CohabPartner) and their own children (TU: cbfam_hu/own_child).

TU: cbfam_hu

	2005
Spouse	1
CohabPartner	1
own child	1
cd min age	0
cd_agelow	16
cd agehigh	24
cd InFTsed	1
cd Married	-1
cd Cohab	-1

Dependent children are defined in the taxunit as aged 16 or younger (TU: cbfam_hu/cd_agelow) or 24 or younger (TU: cbfam_hu/cd_agehigh) if they are in full time secondary education (TU: cbfam_hu/cd_InfTsed), not married (TU: cbfam_hu/cd_Married) and not cohabiting (TU: cbfam_hu/cd_Cohab).



• Eligibility conditions

Family Allowance is a universal benefit. This benefit is paid if at least one dependent child lives in the family.

• Income test

Income test is not necessary

• Benefit amount

The monthly amounts for lone parents (IsloneParentOfDepChild) are:

```
1 child (nDepChInTu=1): HUF 6,000,
```

2 children (nDepChInTu=2): HUF 7,200 per child (IsDepChild),

3 or more children (nDepChInTu>2): HUF 8,400 per child (IsDepChild),

permanently ill or severely disabled child (IsDisabled): HUF 15,700.

Elig cond

{IsLoneParentOfDepChild}

MOD: co ArithOp - Benefit Calculation

	period	2005
comp1 cond		{nDepChInTu=1} & !{IsDisabled} & {IsDepChild}
comp1_perElig	M	6000
comp2 cond		{nDepChInTu=2} & !{IsDisabled} & {IsDepChild}
comp2_perElig	M	7200
comp3 cond		{nDepChInTu>2} & !{IsDisabled} & {IsDepChild}
comp3 perElig	M	8400
comp4 cond		{IsDisabled} & {IsDepChild}
comp4_perElig	M	15700



The monthly amounts for other families (co bchnm = 0) are:

1 child (nDepChInTu=1): HUF 5,100,

2 children (nDepChInTu=2): HUF 6,200 per child (IsDepChild),

3 or more children (nDepChInTu>2): HUF 7,800 per child (IsDepChild),

permanently ill or severely disabled child (IsDisabled): HUF 13,900.

MOD: co_elig - Eligibility Module

2005
Elig cond {co_bchnm = 0}

MOD: co_ArithOp - Benefit Calculation

	period	2005
comp1_cond		{nDepChInTu=1} & !{IsDisabled} & {IsDepChild}
compl perElig	M	5100
comp2 cond		{nDepChInTu=2} & !{IsDisabled} & {IsDepChild}
comp2 perElig	M	6200
comp3 cond		{nDepChInTu>2} & !{IsDisabled} & {IsDepChild}
comp3 perElig	M	7800
comp4 cond		{IsDisabled} & {IsDepChild}
comp4_perElig	M	13900

The special amount for foster children cannot be simulated.

2.3.5 Regular child protection benefit (SBEN_ChProt_HU)

This benefit is paid to the family if the income per person in the family does not exceed the amount of minimum old-age pension of HUF 24,700.

• Definitions

The unit of analysis is the family (TU: cpfam_hu) This comprises the head, his spouse (TU: cbfam_hu/spouse) or partner (TU: cbfam_hu/CohabPartner) and their own children (TU: cbfam_hu/own_child).



TU: cbfam_hu

	2005
Spouse	1
CohabPartner	1
own_child	1
cd_min_age	0
cd_agelow	17
cd_agehigh	25
cd_InFTsed	2
cd_InFTted	3
cd_Married	-1
cd_Cohab	-1
cd_le_Age1	2
cd_le_Age2	3
cd_le_Age1_lt	23
cd le Age2 lt	25

Dependent children are defined in the taxunit as aged 17 or younger (TU: cbfam_hu/cd_agelow) or 23 or younger (TU: cbfam_hu/cd_le_Agel; /cd_le_Agel_lt) if they are in full time secondary education (TU: cbfam_hu/cd_InFTsed), not married (TU: cbfam_hu/cd_Married) and not cohabiting (TU: cbfam_hu/cd_Cohab) or 25 or younger (TU: cbfam_hu/cd_le_Age2; /cd_le_Age2_lt) if they are in full time tertiary education, not married (TU: cbfam_hu/cd_Married) and not cohabiting (TU: cbfam_hu/cd_Cohab).

• Eligibility conditions

Eligible are families where per capita monthly income (as defined in il_meanstesty) is below the amount of the minimum old-age pension

• Income test

The il_meanstesty is defined as disposables income (std_dispy) with the exception of this benefit and social assistance (as they are not yet calculated)

Benefit amount

The benefit per child amounts to 22% of the minimum old-age pension (amount*nDepChInTu)



	period		2005
formula		amount#1	*nDepChInTu
	M		5434

2.3.6 Social assistance (SBEN_SA_HU)

2.3.6.1 Old-age allowance

This is a social assistance scheme to ensure a minimum income during old-age in the absence of an old-age pension. The amount of the benefit is determined by the income of the person (and his/her partner or spouse).

• Definitions

The unit of analysis is the 'couple' (TU: couple_hu) This comprises the head, his spouse (TU: cbfam hu/spouse) or partner (TU: cbfam hu/CohabPartner).

TU: couple_hu	
	2005
Spouse	1
CohahDartner	1

Taxunit comprises only head and his/her partner, i.e. income of other household members is not taken into account.

• Eligibility conditions

Eligible are couples (nPersInUnit=2) where at least one is 62 or older (codAG>=62) and singles (nPersInUnit=1) who are 62 or older (codAG>=62).

Income test

il_meanstesty is defined as disposables income with the exception of regular child protection benefit and social assistance (as they are not yet calculated).

• Benefit amount

For couples the maximum benefit amounts to 80% of the minimum old-age pension per person. For singles the maximum benefit amounts to 95% of the minimum old-age pension. Income of the couple/single (as defined in <code>il_meanstesty</code>) is withdrawn completly from maximum benefit (<code>withdraw rate=1</code>).

```
MOD: co_BenCalc - Benefit Calculation
```



```
2005

comp1_cond {coDAG>=62} & {nPersInUnit=2}

comp1_perTU m 39520

comp2_cond {coDAG>=62} & {nPersInUnit=1}

comp2_perTU m 23465

withdraw_base_il il_meanstestY

withdraw_rate 1
```

2.3.6.2 Regular benefit

This is a social assistance scheme to ensure a minimum standard of living. The amount of the benefit is determined by the per capita income of the applicant's household.

Definitions

The unit of analysis is the household (TU: household_hu), i.e. all individuals in the household are members of the same unit.

TU: household_hu

	2005
household	1
Own_child	1
cd agelow	16
cd_agehigh	24
cd_InFTsed	1
cd_Married	-1
cd Cohab	-1

• Eligibility conditions

Eligible are persons who are 18 years or older (CODAGS=18) and have a disability degree of at least 67% (CODDILV>=67) or receive disability benefit (COPDI>0) or are non-employed, i.e. unemployed (COLES=5) or inactive (COLES=7) and do not have income as defined in il_sareexclY (il_sareexclY<=0).

MOD: Eligibility Conditions

• Income test

il_meanstesty is defined as disposables income with the exception of regular child protection benefit and social assistance (as they are not yet calculated).



• Benefit amount

The maximum benefit amounts to 80% of the minimum old-age pension. The payable amount is the difference between per capita income (co_sin01 = il_meanstesty / hh-members) and that maximum.

MOD: co BenCalc - Benefit Calculation

	period	2005
comp1 perElig	m	19760
withdraw_base_var		co_sin01
withdraw rate		1

2.3.6.3 Home maintenance support

This is a means-tested benefit provided by the local government for a family or individual who lives in a home not exceeding a specified size, provided that there is no income from the use of that home.

• Definitions

The unit of analysis is the household (TU: household_hu) i.e. all individuals in the household are members of the same unit.

TU: household_hu

	2005
household	1
Own_child	1
cd_agelow	16
cd agehigh	24
cd_InFTsed	1
cd_Married	-1
cd_Cohab	-1

• Eligibility conditions

Eligible are households where per capita income does not exceed 150% of the minimum old-age pension ($co_sin01 <= \#1_amount; co_sin01 = i1_meanstesty/hh-members$) and home maintenance costs are 20% of hh-income or above ($coxHC>=co_sin03; co_sin03=i1_meanstesty*0.2$). The condition that the size of the flat must not exceed an acknowledged size cannot be simulated as no variable for the size of flat is available.

MOD: Eligibility Conditions

		2005
ncomp		1
comp1_cond		{co_sin01<=amount}#1 & {coXHC>=co_sin03}
#1_amount	m	37050



2005

• Income test

il_meanstesty is defined as disposables income with the exception of regular child protection benefit and social assistance (as they are not yet calculated).

• Benefit amount

The benefit amounts to monthly 2500 HUF.

MOD: co_BenCalc - Benefit Calculation period

comp1 perTU m 2500

2.4 Social contributions

In Hungary, the social insurance system has two large parts: the pension scheme and health insurance.

2.4.1 Employee social contributions (EESIC_HU)

Pension insurance contributions amount to 8.5% (MOD: co_ArithOp / formula) of employment income (MOD: co_ArithOp / coYEM) with a daily upper limit (co_ArithOp / uplim amount)

Employees pay 4% health insurance contribution ($MOD: CO_ArithOp / formula$) and general employee insurance contributions amount to 1% of employment income ($MOD: CO_ArithOp / formula$)

No employee social insurance contributions are payed if in receipt of old age pension (MOD: COELIG / elig cond). The tax unit is the individual hu.



MOD: EESIC HU - SIC Employee social contributions

pension insurance contributions formula coyEM * 0.085 uplim_amount d 16440 result_var co_tsceepi output_var co_tscee TAX_UNIT individual_hu health insurance contributions formula coyEM * 0.04 result_var co_tsceehl output_var addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions formula coyEM * 0.01	Period	2005
formula coYEM * 0.085 uplim_amount d 16440 result_var co_tsceepi output_var co_tscee TAX_UNIT individual_hu health insurance contributions formula coYEM * 0.04 result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	pension insurance contributions	
result_var co_tsceepi output_var co_tscee TAX_UNIT individual_hu health insurance contributions formula coYEM * 0.04 result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions		coYEM * 0.085
output_var co_tscee TAX_UNIT individual_hu health insurance contributions formula coYEM * 0.04 result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	uplim amount d	16440
TAX_UNIT individual_hu health insurance contributions formula coyEM * 0.04 result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	result var	co tsceepi
health insurance contributions formula coYEM * 0.04 result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	output var	co tscee
formula coYEM * 0.04 result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	TAX UNIT	individual hu
result_var co_tsceehl output_var_addto 1 output_var co_tscee TAX_UNIT co_tscee individual_hu general employee insurance contributions	health insurance contributions	_
output_var_addto 1 output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	formula	coYEM * 0.04
output_var co_tscee TAX_UNIT individual_hu general employee insurance contributions	result var	co tsceehl
TAX_UNIT individual_hu general employee insurance contributions	output var addto	1
general employee insurance contributions	output var	co tscee
	FAX_UNIT	individual_hu
	general employee insurance contribu	ions
IOIMAIA COIDH 0.01	formula	coYEM * 0.01
output var addto 1	output var addto	1
output var co tscee	output var	co tscee
TAX_UNIT individual_hu	TAX_UNIT	individual_hu

2.4.2 Employer social contributions (ERSIC_HU)

Pension insurance contributions amount to 18% of employment income (<code>MOD: co_ArithOp / formula</code>) and the health insurance contributions amount to 11% of employment income (<code>MOD: co_ArithOp / formula</code>)

Fixed health contributions of a monthly amount of 3450 HUF are paid by employers for their employees. Fixed health contributions are counted as employer social insurance contributions if the person is "mainly employee" (i.e. employment income > self-employment income) otherwise as self-employed social insurance contributions.

General employer insurance contributions amount to 3% of employment income income (MOD: co ArithOp / formula)

The tax unit is individual hu.



MOD: ERSIC HU - SIC Employer social contributions

co tscer

individual hu

	Period	2005
pension insurance cont	ributions	
formula		coYEM * 0.18
result_var		co_tscerpi
output_var		co_tscer
TAX UNIT		individual hu
health insurance contri	butions	
formula		coYEM * 0.11
result var		co tscerhl
output var addto		1
output var		co tscer
TAX UNIT		individual hu
flat rate health insuran	ce contributio	ns
elig cond		{coYEM > coYSE}
TAX UNIT		individual hu
SWITCH		1
Formula	m	3450
result var		co sin01
output_var_addto		1
output var		co tscer
TAX_UNIT		individual_hu
general employee insur	ance contribu	tions
formula		coYEM * 0.03

2.4.3 **Self-employed social contributions**

TAX UNIT

output var addto output var

Enterpreneurs (COTSETP=1) and EVA (simplified business tax) payers (COTSETP=2) pay selfemployed contributions.

Contribution base for enterpreneurs (COTSETP=1) is self-employment income (COYSE) but at least the amount of the minimum wage. In the case of EVA payers (COTSETP=2) contribution base is the amount of the minimum wage.

Pension insurance contributions amount to 8.5% (employee-part) + 18% (employer-part) of contribution base. If in receipt of old age pension {coppa>0} only the employer part, i.e. 18% of contribution base, has to be paid.

Health insurance contributions amount to 4% (employee-part) + 11% (employer-part) of contribution base. If in receipt of old age pension only the employer part, i.e. 11% of contribution base, has to be paid.

EVA payers do not pay self-employed health insurance contributions if they are at the same time employees ({cotsetp!=2} | {co tscee=0})

Fixed health contributions of a monthly amount of 3450 HUF are counted as employer social insurance contributions if the person is "mainly self-employed" (i.e. self-employment income > employment income) otherwise as employer social insurance contributions.



Genaral insurance contributions amount to 1% (employee-part) + 3% (employer-part) of contribution base. If in receipt of old age pension only the employer part, i.e. 3% of contribution base, has to be payed.

MOD: ERSIC HU - SIC Employer social contributions

```
Period
                                             2005
elig_cond
                                    {coTSETP=1} | {coTSETP=2}
TAX UNIT
                                    individual_hu
determine contribution base
                                    {coTSETP=1}
comp1_cond
comp1_perElig
                                    COYSE
lowlim_amount
                                    57000
comp2_cond
                                    {coTSETP=2}
comp2_perElig
output_var
TAX_UNIT
                          m
                                    57000
                                    co sin01
                                    individual hu
pension insurance contributions
comp1 cond
                                    {coPOA=0}
comp1_perElig
                                    co sin01 * (0.085 + 0.18)
comp2_cond
comp2_perElig
                                    {coPOA>0}
                                    co_sin01 * 0.18
result_var
output_var
                                    co_tscsepi
                                    co tscse
TAX UNIT
                                    individual hu
health insurance contributions
                                    {coPOA=0} & ({coTSETP!=2} | {co tscee=0})
comp1_cond
                                    co_sin01 * (0.04 + 0.11)
{coPOA>0} & ({coTSETP!=2} | {co_tscee=0})
co_sin01 * 0.11
comp1_perElig
comp2_cond
comp2_perElig
result_var
output_var_addto
output_var
                                    co tscsehl
                                    co tscse
TAX_UNIT
                                    individual hu
flat rate health insurance contributions
                                    {coYSE>coYEM} & {coPOA=0} & ({coTSETP!=2} | {co tscee=0})
elig_cond
TAX UNIT
                                    individual hu
SWITCH
formula m
                                    3450
result_var
output_var_addto
                                    co_sin02
output var
                                    co tscse
TAX_UNIT
SWITCH
                                    individual hu
co_ArithOp
formula
                                    co tscsehl + co sin02
output var
                                    co tscsehl
TAX UNIT
                                    individual hu
general insurance contributions
                                    {coPOA=0}
comp1_cond
comp1_perElig
                                    co sin01 * (0.01 + 0.03)
comp2 cond
                                    {coPOA>0}
                                    co_sin01 * 0.03
comp2_perElig
output_var_addto
output var
                                    co tscse
TAX_UNIT
                                    individual hu
```



2.5 Personal income tax (IT_HU)

The main tax simulated for Hungary is personal income tax (it_hu). Every citizen is obliged to file a tax return at the end of the tax year if their annual income comprises taxable income.

2.5.1 Tax unit

Personal income tax is individual(TAX_UNIT=individual_hu). However, as explained shortly, there is a partial exception to this rule: family tax credit are jointly assessed (TAX_UNIT=cb_fam_hu). In this case the unit of analysis is the family (TU: cbfam_hu) This comprises the head, his/her spouse (TU: cbfam_hu/spouse) or partner (TU: cbfam_hu/CohabPartner) and their own dependent children. Dependent children are defined as aged 16 or younger (TU: cbfam_hu/cd_agehigh) if they are in full time secondary education (TU: cbfam_hu/cd_InfTsed). Children cannot be married (TU: cbfam_hu/cd_Married) or cohabiting (TU: cbfam_hu/cd_Cohab).

2.5.2 Exemptions

Some income components do not have to be declared to the tax authorities, and thus are not included in the concept of taxable income (pensions, child and family benefits).

2.5.3 Tax base

The tax base is defined as taxable income (IL: taxabley) minus EVA payers' (COTSETP=2) self-employment income. Their self-emploment income is stored in COYSE and used for calculating SIC, but not for tax calculation.

MOD: IT HU - TAX Personal Income Tax - Cvalculate taxbase

```
elig_cond {coTSETP=2}
TAX_UNIT individual_hu

formula il_taxabley - coYSE*co_sben_elig
output_var co_sin01
TAX_UNIT individual_hu
```



Taxable income includes all sources of income. More specifically, the definition of taxable income is as follows (The following syntax consists the incomes what we can use in the model. These are the most important type of incomes, and the amounts of this incomes are cause the errors/divergence of the simulating.):

```
IL: taxableY taxableY taxableY= child raising support (gyermeknevelési támogatás, co_bcclt) + child care allowance (gyermekgondozási segély, co_bccnc) + child care fee (gyermekgondozási díj, coBCCCT) + sickness benefits (táppénz, távolléti díj, coBHL) + maternity allowance (terhességi-gyermekágyi segély, coBMACT) + unemployment benefits (munkanélküli ellátások, coBUN) + employment income, coYEM) + property income (coYPR) + self-employment income (coYSE)
```

2.5.4 Tax schedule

Income taxation is graduated, with progressively higher marginal tax rates applying to higher income brackets.

In 2005, the tax schedule included 2 brackets. Income up to 1,500,000 HUF annual amount is taxed with a rate of 18%, income above with a rate of 38%.

2.5.5 Tax credits

Tax credits are defined as deductions from tax due. These tax credits are non-refundable. In other words, final tax is calculated as the amount of tax resulting from the tax schedule minus the sum of all tax credits, subject to a minimum of 0.

A considerable number of tax credits cannot be simulated, because of the missing variables or missing relevant information in the database. The model consists most of these tax credits but these are switched off. In this chapter we listed only the simulated tax credits.

2.5.6.1. Tax credit for non taxable emolument (progression proviso)

Tax on income as defined in incomelist <code>il_taxprogY</code> is deducted from tax (i.e. this income is not taxable, but moves actually taxable income up in the schedule).



2.5.6.2. Tax credit on income from wages

Maximum for the refund is 9 000 HUF/monthly but the maximum tapers off if total income (as defined in <code>il_totaly</code>) is between 1 350 000 HUF annual amount and 1 950 000 HUF annual amount.

The refund amounts to 18% of income from wages (as defined in <code>il_wageY</code>) with a maximum as described above.

```
MOD: hu it credit - tax credit on income from wages
Formula - amount#1-(amount#1/(amount#3-amount#2))*((il totalY<max>amount#2)-amount#2)
                              9000
\#1_amount
              m
#2_amount
              У
#3 amount
                              1950000
lowlim amount
output var
                              co sin02
TAX_UNIT
                              individual hu
                              0.18 * il wageY
formula
uplim var
                              co_sin02
output_var_addto output_var
                              co tintc
TAX UNIT
                              individual hu
```

2.5.6.3. Additional tax credit on income from wages

The refund is only available for those with positive wage income (il_wageY>0). The refund amounts to 18% of income from wages (as defined in il_wageY) minus a monthly amount of 50,000 HUF (0.18 * (il_wageY - amount#1)). Maximum for the refund is 1,260 HUF (monthly) but the maximum tapers off if total income (as defined in il_totaly) is between 1,000,000 HUF (annual) and 1,302,400 HUF (annual).

```
MOD: hu it credit - additional tax credit on income from wages
Formula - amount#1-(amount#1/(amount#3-amount#2))*((il totalY<max>amount#2)-amount#2)
#1_amount
                             1260
                     m
#2_amount
                             1000000
                     У
#3 amount
                             1302400
                     У
lowlim_amount
                             0
output var
                             co sin02
TAX UNIT
                             individual_hu
comp1_cond
                             {il wageY>0}
                             0.18 * (il_wageY - amount#1)
comp1_perElig
#1 amount
                             50000
uplim var
                             co_sin02
lowlim_amount
output_var_addto
output var
                             co tintc
TAX UNIT
                             individual hu
```



2.5.6.4. Tax credit for serious disability

Eligible are persons with a disability level of at least 67% (CODDILV>67). The tax credit amounts to 2 000 HUF monthly amount

```
MOD: hu_it_credit - tax credit for serious disability

ncomp
comp1_cond {coDDILV>67}
comp1_perElig m 2000
output_var_addto 1
output_var co_tintc
TAX UNIT individual hu
```

2.5.6.5. Family tax credit

Family tax credit amounts to 3,000 HUF monthly amount if there is one dependent child in the family (nDepChInTu=1)

4 000 HUF monthly amount per child (nDepChInTur*amount) if there are two dependent children in the family (nDepChInTu=2)

10 000 HUF monthly amount per child (nDepChInTur*amount) if there are three or more dependent children in the family (nDepChInTu>2)

Tax credit is granted fully if total income is below 8,000,000 HUF annual amount, if total income is above, for each HUF above, 20% are deducted from tax credit

```
MOD: hu it credit - family tax credit
comp1 cond
                               {nDepChInTU=1}
comp1_perTU
comp2_cond
                       m
                              {nDepChInTU=2}
comp2_perTU
                              nDepChInTU*amount#2
#2 amount
                       m
comp3 cond
                              {nDepChInTU>=3}
comp3_perTU
                              nDepChInTU*amount#3
#3 amount
                       m
                              co sin02
output var
TAX_UNIT
                              cbfam hu
                              co sin02 - ((il totaly-amount#1)<max>0)*0.2
                              8000000
#1 amount
                       У
lowlim_amount
                              0
output var
                              co sin02
TAX UNIT
                              cbfam hu
```

The tax credit is shared (proportionally to tax after deduction of other tax credits) among parents to make the maximum use of it (MOD: co_Allocate).

2.6 Simplified Business Tax (EVA_HU)

Calculation of EVA (Egyszerűsített Vállalkozói Adó – Simplified Business Tax) is based on the amount of total revenues together with the VAT. The tax rate is 15%. Those paying EVA are



exempted from paying the VAT, they do not have to pay entrepreneurial personal income tax and if they have no other revenues, they do not have to file a personal income tax return.

3. DATA

3.1 General description

The Hungarian database is drawn from the Community Statistics on Income and Living Conditions (EU-SILC). EU-SILC is expected to become the EU reference source for comparative statistics on income distribution and social exclusion at European level, particularly in the context of the 'Programme of Community action to encourage cooperation between Member States to combat social exclusion' and for producing structural indicators on social cohesion for the annual spring report to the European Council.

The instrument aims to provide two types of data:

- Cross-sectional data pertaining to a given time or a certain time period with variables on income, poverty, social exclusion and other living conditions
- Longitudinal data pertaining to individual-level changes over time, observed periodically over, typically, a four year period.

Social exclusion and housing condition information is collected at household level while labour, education and health information is obtained for persons aged 16 and over. The core of the instrument, income at very detailed component level, is mainly collected at personal level but a few components are included in the household part of SILC.

The Statistics on Income and Living Conditions is conducted by the Central Statistics Office (HCSO)



The 2005 EU-SILC sample in Hungary was selected by a stratified two-stage sampling design in a part of the population and by stratified one-stage design in the other part. The final sampling units are the dwellings and, in each of them, every household is observed.

Localities were stratified by General Election Districts and size (in terms of number of dwellings). In the first part, one locality was selected with probability proportional to the number of dwellings. Within each selected locality, a systematic selection of dwellings was done. As for the other part of the population, a systematic selection of dwellings was done in each stratum.

Table 14. EUROMOD database description

	1
	2005
EUROMOD database	W1 V1HU.mdb
Original name	SILC_UDB_c05
Provider	HCSO; EUROSÍTAT
Year of collection	2005
Period of collection	May-Jun
Income reference period	01/01/2004 - 31/12/2004
Unit of assessment	Households*
Coverage	Private household
Sample size	Ind: 17,958 HH: 6,924
Response rate	62%**

^{*}Notes: Persons living in collective households and in institutions are generally excluded from the target population. Refers to a non-institutional collective dwelling such as a boarding house, dormitory in an educational establishment or other living quarters shared by more than five persons without sharing household expenses.

3.2 Sample quality and weights

3.2.1 Non-response

We have no information about the "pattern" of the non-response. The EUROSTAT published just the household response rate that is 62%

In general the unit non-response in the EU-SILC refers to absence of information on whole units (households and/or persons) selected into the sample. In EU-SILC, the unit non-response has been normally addressed by reweighing the responding cases. Some of the information for weighting comes from within the survey, such as information on units' selection probabilities, and unit non-response rates for different subgroups in the sample. In addition, weighting normally also makes use of external control distributions of population characteristics (e.g. by household size, location, age and sex, activity status) through the use of calibration techniques.

^{**}Source:EUROSTAT



3.2.2 Weights

The original Hungarian SILC wave 1 consisted of 6,927 households and 17,969 individuals. Of these, 3 households (11 individuals) reported zero incomes from all sources. These households were excluded from EUROMOD input data. As a result, the sample used in the model numbers 17,958 individuals in 6,927 households.

The weights provided by the SILC are household weights aiming to correct for selective non-response and panel attrition. In EUROMOD these weights have been scaled up to offset the exclusion of 11 individuals in 3 households from the original sample. No re-weighting was performed. Sample statistics and output estimates were projected to a reference population of 10,097,549 individuals in 3,837,087 households. Population estimates were provided by the General Election Districts of Hungary on the basis of the 2001 Population Census. Table 9 presents some basic descriptive statistics for the grossing-up weight.

Table 15. Descriptive Statistics of the Grossing-up weight

	EM_data1
Number	17958
Mean	552.8719
Median	484.0000
Maximum	2500
Minimum	300
Max/Min	8.3333
Decile 1	328.9000
Decile 9	842.1000
Dec 9 / Dec1	2.5604

3.2.3 Item non-response and under-reporting

Income and household composition data are collected by interviews with all household members aged 16 or over. The SILC response rules require detailed information on all income components to be provided by direct reporting, but proxy answers are allowed. In the case that a proxy interview is carried out, the identification number of the person who has provided the information has to be recorded. In the Hungarian SILC database there aren't person non-response, i.e. if household questionnaire was made, every person in the household answered the personal questionnaire (or proxy answers were asked).

In general the SILC item non-response refers to the situation when a sample unit has been successfully enumerated, but not all the required information has been obtained. Various approaches of imputation can be envisaged (deductive methods, deterministic methods, stochastic methods)

Deductive methods refer to imputation procedures in which the true value of a missing item is logically deduced. This means that the value is either deduced from other variables of the survey or is derived from legal regulations. An example for the first mode of deductions is the net-gross-net conversion, when either the gross value or the net value is given and the corresponding missing value is calculated by applying general rules. An example for the latter



mode is when the value of the childcare benefit is missing and the effectual value can be inserted.

The difference between deterministic and stochastic methods is whether the calculation procedure to calculate the missing item produces a random output as, e.g. simulating the error term using a regression approach.³

3.3 Data adjustment

Generally we try to keep the original EU-SILC dataset. The EUROSTAT applies several processes to validate the database. The validation process contains syntax and a logical check. For example the logical check audit the structural coherence of the files (household register, personal register, household data, personal data) and the coherency between different variables of the same record and other records. Even so the aware validation process the detailed description of the process with the Hungarian database is not available.

3.4 Imputations and assumptions

3.4.1 Time period

In the SILC user database, the income reference period is a 12-month period. Information on earnings refers to the last tax year (01/01/2004 - 31/12/2004). Similarly, information about pensions and benefits refers to the calender year before the interview. Self-employment income is based on this reference period too.

In general: "The interval between the end of the income reference period and the time of the interview for the respondent concerned shall be limited to 8 months as far as possible. This applies both to the household and personal samples, and irrespective of whether the reference period used is fixed in terms of calendar dates for the whole sample or is a moving reference period determined according to the timing of the interview for the household or person concerned."

All monetary amounts in the SILC are expressed in annual terms. These are converted into monthly terms (dividing by 12) for the EUROMOD database.

3.4.2 Gross incomes

The Hungarian SILC data include variables on income tax, employee social insurance contributions and other deductions from gross earnings. In general, "gross income means the total monetary and non-monetary income received by the household over a specified 'income reference period', before deduction of income tax, regular taxes on wealth, employees', self-employed and unemployed (if applicable) compulsory social insurance contributions and

³ Source: EU-SILC User Database Description

⁴ SILC UDB description



employers' social insurance contributions, but after including inter-household transfers received."5

3.4.3 Other imputed variables

n.a.

3.5 Updating

The factors that are used to update monetary variables from the mean of the data year are shown in Table 18. No other updating adjustments are employed.

Table 16. Updating factors

Index	Income Source/index type	From year 2004 to 2005
def_inc_uprate	default uprating factor	1.0693872
inc_uprate	wages and saleries	1.078012
inc_uprate	self-employment income	1.0637819
inc_uprate	self-employment income	1.0637819
inc_uprate	old age income (öregségi/saját jogú nyugdíj)	1.1022049
	survivor benefits (hozzátartozói jogon járó	
inc_uprate	nyugdíj)	1.1199475
inc_uprate	total family benefits	1.0604979
inc_uprate	unemployment benefits (munkanélküli ellátások)	1.1033597
inc_uprate	sickness benefits (táppénz, távolléti díj)	1.0561661
inc_uprate	disability benefits	1.0794341
inc_uprate	child care fee	1.0766172
inc_uprate	maternity allowance	1.0854107
inc_uprate	social assistance, nursing fee (ápolási díj)	1.1131444

Source: Yearbook of Welfare Statistics, 2005 HCSO; Hungarian Statistical Yearbook, 2005 HCSO

4. VALIDATION

4.1 Aggregate Validation

4.1.1 Non simulated taxes and benefits

The table below compares statistics on benefits and taxes that are not simulated by EUROMOD with external sources. 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. It calculates the ratio of EUROMOD (weighted SILC) expenditures and numbers of recipients to

⁵ SILC UDB description



estimates drawn from administrative statistics for some of the main social security benefits that are not simulated by the model.

All important personal income tax and social contributions are simulated, but some of the tax credits can't be simulated.



Table 17. EUROMOD validation: taxes and benefits included but not simulated, [2005]

BENEFIT	Recipients (th	Recipients (thousand)			Expenditure (HUFm/year)		
	EUROMOD	External	Ratio	EUROMOD	External	Ratio	
	database	source		database	source		
Unemployment	454	411	1.1	9,830	12,256	0.80	
benefits							
Sickness benefits	360	115*	3.12	3,907	8,085	0.48	
Child care fee	104	87	1.19	5,845	6,036	0.97	
Disability benefits	845	877**	0.96	30,238	20,098	1.50	
Old age income	2 203	2 345	0.94	146,916	130,612	1.12	
Survivor benefits	112	111	1.01	2,268	2,107	1.08	

Notes: * This number does not contain the sick leave recipients. An employee is entitled to 15 days' sick leave per calendar year to cover periods of unfitness for work occurring by reason of sickness. The employer bears the expenses of sick leave. (HCSO, 2006). The above signed 'external source' number is shown by the National Health Insurance Fund Administration data, the EUROMOD database number is the two type of sickness benefits together (i.e. the sick leave and the sick pay together). On the other hand the interviewees underestimated the sum of the sickness benefit significant. The expenditure per sick pay day is 2,595 HUF and the average sickness benefit is 10,272 HUF per month in the SILC dataset.

Sources: Yearbook of Welfare Statistics, HCSO, 2006

4.1.2 Simulated income tax

Table 18. EUROMOD validation: income tax, [2005]

	Taxpayers (pe	erson)		Revenue (million HUF)		
	EUROMOD database	External source	Ratio	EUROMOD database	External source	Ratio
Personal Income Tax	2,953,040	~3,000,000	0.98	93,212*	113,606	0.82
Simplified Business Tax	105,378	115,425	0.91	1,438	7,583	0.19**

Notes: *Not all the tax credits can be simulated, on the other hand in the original EU-SILC database there are too many self employed with low incomes, this causes a relative good ratio, so this amount is too *high*. (if we were able to simulate the tax credits we would receive a significantly smaller result.

Sources: National Accounts Hungary 2004-2005; HCSO 2007

4.1.3 Simulated social contributions

Table 19. EUROMOD validation: social contributions, [2005]

	Contributors (Contributors (person)			Revenue (mHUF)		
	EUROMOD database	External source	Ratio	EUROMOD database	External source	Ratio	
Employee Social	3,898,581	~4,000,000	0.97	57,046	42,039	1.36	
Insurance							
Contributions							

^{**}This amount includes the following benefits: disability pension below retirement age, miners' and early retirement pension, benefits to persons with reducted capacity to work, accident benefits, disability benefit

^{**} The EU-SILC survey underestimates the self-employment incomes. The average montly income of a 'simplified business tax payer' self-employment is approximately 600 000 HUF and this amount is just 85 502 HUF in the database.



Employer Social	4,086,310	~4,000,000	1.02	153,620	230,004	0.67
Insurance						
Contributions	200 200	900 000	1.00	20,690	<i>EE</i> 0.41	0.71
Self-employed Social Insurance	800,209	~800,000	1.00	39,689	55,841	0.71
Contributions						
Contributions						

Notes:

Sources: National Accounts Hungary 2004-2005; HCSO 2007

4.1.4 Simulated social benefits

• Maternity grant

Table 20. EUROMOD validation: Maternity grant, [2005]

	Recipients (number)			Expenditure (mHUF)		
	EUROMOD database	External source	Ratio	EUROMOD database	External source	Ratio
Maternity grant	79,307	93,311	0.85	367	441	0.83

Notes:

Sources: Yearbook of Welfare Statistics, HCSO, 2006

• Child care allowance

Table 21. EUROMOD validation: Child care allowance, [2005]

	Recipients (nu	Recipients (number)			Expenditure (mHUF)		
	EUROMOD	External	Ratio	EUROMOD	External	Ratio	
	database	source		database	source		
Child care allowance	246,445*	161,404**	1.53	6,087	4,205	1.45	

Notes: * The EUROMOD grants this amount where a less than 2 years old child is in the family, but not all these families get this benefit.

Sources: Yearbook of Welfare Statistics, HCSO, 2006

• Child raising support

Table 22. EUROMOD validation: Child raising support, [2005]

	Recipients (nu	Recipients (number)			Expenditure (mHUF)		
	EUROMOD database	External source	Ratio	EUROMOD database	External source	Ratio	
Child raising support	56,793	47,304	1.2	1,403	1,160	1.21	

Sources: Yearbook of Welfare Statistics, HCSO, 2006

• Family allowance

^{**} Average monthly number of recipients



Table 23. EUROMOD validation: Family allowance, [2005]

	Recipients (person)			Expenditure (mHUF)		
	EUROMOD	External	Ratio	EUROMOD	External	Ratio
	database	source		database	source	
Family allowance	1,197,241	1,264,528	0.95	12,674	14,703*	0.80

Notes: *The annual expenses on family allowance divided by 13, because the family allowance amount is a 'double benefit' in august (i.e. this is thirteenth month).

Sources: Yearbook of Welfare Statistics, HCSO, 2006

• Regular child protection benefit

Table 24. EUROMOD validation: Regular child protection benefit, [2005]

	Recipients (person)			Expenditure (mHUF)		
	EUROMOD database	External source	Ratio	EUROMOD database	External source	Ratio
Regular child protection benefit	320,432	626,673(?)	0.51	3,333	3,726	0.89

Sources: Yearbook of Welfare Statistics, HCSO, 2006

• Social assistance

Table 25. EUROMOD validation: Social assistance, [2005]

	Recipients (person)			Expenditure (mHUF)		
	EUROMOD database	External	Ratio	EUROMOD database	External	Ratio
	uatabase	source		uatabase	source	
Social assistance	303,309	332,364	0.91	1,429	3,402	0.42*

Notes: * In the case of the home maintenance support the EUROMOD grants the minimum amount of this benefit (2 500HUF/month), but the average amount per case is 5 787 HUF, but this difference does not influence the macro results significantly, that is why we use the original amount.

Sources: Yearbook of Welfare Statistics, HCSO, 2006

4.2 Income distribution

All income distribution results presented here are computed for individuals according to their household disposable income (HDI) equivalised by the "modified OECD" equivalence scale. HDI are calculated as the sum of all income sources of all household members net of income tax and social insurance contributions. The weights in the OECD equivalence are: first adult=1; additional people aged 14+=0.5; additional people aged under 14=0.3.



4.2.1 Poverty

Table 26. EUROMOD validation: poverty rates at different poverty lines, [2005]

percentage of individuals below:	EUROMOD	External source*	Ratio
40% of median equivalent income	5.0	3.2	1.6
males	5.4	3.7	1.4
females	4.6	2.7	1.7
50% of median equivalent income	9.2	6.7	1.4
males	9.9	7.2	1.4
females	8.6	6.2	1.4
60% of median equivalent income	15.4	12.1	1.3
males	16.0	12.3	1.3
females	14.9	11.9	1.2
70% of median equivalent income	22.9	20.6	1.1
males	23.3	19.7	1.2
females	22.5	21.3	1.1

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: 'TÁRKI Household Monitor 2005. The financial and labor market position of Hungarian households' survey

Table 27. EUROMOD validation: poverty rates (median 60%) by age groups, [2005]

percentage of individuals below:	EUROMOD	External source	Ratio
Population	15.4	12.1	1.3
0-15	20.7	14.6	1.4
16-29	17.7	14.6	1.2
30-44	18.0	11.4	1.6
45-64	14.2	11.9	1.2
65-	5.7	7.0	0.8

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: 'TÁRKI Household Monitor 2005. The financial and labor market position of Hungarian households' survey



4.2.2 Income inequality

Table 28. EUROMOD validation: income inequality, [2005]

EUROMOD	External source	Ratio
0.278	0.309	0.90
4.21	4.23	0.99
27,428	34,668	0.79
44,527	51,156	0.87
54,179	60,073	0.90
62,197	68,028	0.91
70,603	76,023	0.93
79,039	85,319	0.93
88,136	96,988	0.91
100,292	109,321	0.92
117,908	132,265	0.89
184,829	230,031	0.80
82,926	94,442	0.88
56,186	63,117	0.89
74,816	80,500	0.93
49,244	54,250	0.91
	0.278 4.21 27,428 44,527 54,179 62,197 70,603 79,039 88,136 100,292 117,908 184,829 82,926 56,186 74,816	0.278 0.309 4.21 4.23 27,428 34,668 44,527 51,156 54,179 60,073 62,197 68,028 70,603 76,023 79,039 85,319 88,136 96,988 100,292 109,321 117,908 132,265 184,829 230,031 82,926 94,442 56,186 63,117 74,816 80,500

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: 'TÁRKI Household Monitor 2005. The financial and labor market position of Hungarian households' survey

4.3 Summary of "healthy warnings"

- The sample size is relatively big but in the case of very detailed analysis the number of cases may be little.
- Please take into consideration the underestimation of the self-employment incomes.
- The tax evasions and the non-take up problem is present, but we don't know the measure of this.
- The dataset contains too few people with *low* and *high* earnings; most likely the model underestimates the income inequality.

5. REFERENCES

National Accounts Hungary 2004-2005. Hungarian Central Statistical Office; Budapest, 2007.

Yearbook of Welfare Statistics 2005. Hungarian Central Statistical Office; Budapest, 2006.



EU-SILC User Database Description (Version 2005-2 from 27-06-07). EUROSTAT, Luxemburg, 2007.

Eurostat (14.12.2007):

http://epp.eurostat.ec.europa.eu/portal/page?_pageid=1996,45323734&_dad=portal&_schema= PORTAL&screen=welcomeref&open=/&product=EU_MASTER_living_conditions_welfare&depth=2

• Sources for tax-benefit descriptions/rules

General sources for tax-benefit descriptions/rules/regulations:

http://www.magyarorszag.hu/english