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Material Deprivation in Selected EU Countries according to EU SILC Income Statistics

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Abstract

Jana Stávková, Naďa Birčiaková, Jana Turčínková: **Material Deprivation in Selected EU Countries** according to EU SILC Income Statistics

The article focuses on issues of households at risk of poverty in a relative conception. Income poverty represents a situation when the threshold of 0.6 of median income is not achieved. The analysis of a broader definition of poverty bases on identification and assessment of material deprivation factors, which include: Financial stress, Housing conditions, Availability of consumer durables and Basic needs. Data sources are based EU-SILC dataset. The presented analysis focuses on selected EU countries, namely Czech Republic, Finland, France, Spain and United Kingdom. The result is the identification of problem areas that cause deprivation symptoms.

Keywords

EU-SILC, income, material deprivation, poverty

JEL: H31, I31, I32, Z10

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1 Introduction

The problem of poverty of the European Union population is more and more intensely debated issue, which hampers the sound socio-economic development of society. An indicator of Europe-wide orientation to the phenomenon of poverty was the decision of EU Council to proclaim the year 2010 as the European Year for Combating Poverty and Social Exclusion. One of the main drivers was the concern of the social effects caused by the economic crisis development in 2009.

In 2010, 16.4% of European households lived below the poverty line. The Czech Republic has maintained its position as the state with the least income-vulnerable households in the EU. In that year only 9% of Czech households lived in poverty zone. Spain (20.7%) and UK (17.1%) were above the average. Approximately an equal representation of economically weak households had Finland (13.1%) and France (13.4%).

For a more thorough assessment of the household income situation it is necessary to take into account the households' subjective opinions. For this purpose, we can use indicators of material deprivation, which can bring better understanding for in what conditions people live in the European Union. Particularly interesting is to look at material deprivation of households in poverty zone, indicating what poverty level affects this population group.

2 Theoretical framework

In economic studies the income situation of households is examined relatively to the political, economic and social situation in the society. The methodology is applied in all member states of the Community (since 2005 in the Czech Republic) in compliance with EU Council Directive no. 1177/2003. The part of the survey of the income situation (and consequently the entire socioeconomic environment) and its impact is mainly the issue of poverty.

Poverty is often referred to as "one of the hottest issues of the globalized world" (Exnerová, Volfová, 2008). The issue of poverty of inhabitants is not specific, as it might seem, to developing countries or regions. According to data of the European Committee, the EU is one of the richest areas of the world, yet 17% of Europeans have such low incomes that they cannot afford to pay for the basic needs (European Committee website, 2010). This statement is based on the findings of the Statistical Office of the European Communities presented among others in the report saying that "17 % of EU citizens were at-risk-of-poverty in 2008" (Wolff, 2010).

Dewilde (2003, p. 334) point out that "poverty is a social and relative concept, depending on the standards of living in society." Halleröd and Larsson (2008, p. 16) explain that "the poor are those

who, due to insufficient access to economic resources, have an unacceptably low level of consumption of goods and services". Whelan and Maître (2010) add that poverty is intrinsically multidimensional and not only about money.

National poverty line or poverty threshold represents the income level below which people are defined as poor. It is also called subsistence minimum. This definition is closely linked to the income level people require to buy life's basic necessities, such as food, clothing, housing, but also what is necessary for satisfaction of their most important socio-cultural needs. What we must take into account is the fact that the poverty line changes over time and it also varies by region, and the official national poverty line is determined by a country's government (Beyond Economic Growth, 2004). Halleröd and Larsson (2008, p. 17) add that "income poverty is measured in accordance with the conventional EU measurement of relative poverty, i.e. those who live in a household with an equivalent disposable income that is below 60 per cent of the median household income are defined as poor."

Material deprivation interacts with country in the manner that it leads to it having substantial consequences for more subjective economic stress in richer rather than poorer countries (Whelan, Maitre, 2008). In a broader sense, we consider following aspects as partial indicators of poverty:

- The issue of health, which is compared with indicators of the mean life expectancy in a country.
- Access to education and the education level, as assessed by current and future expected mean length of schooling. Earlier a rate of illiterate adult population was also used.
- Availability and an adequate level of services. In addition to health and education, services such
 as electricity, sewerage and waste collection and transportation services.
- The quality of infrastructure. Insufficient infrastructure causes social exclusion of the poor.
- The issue of social exclusion (applies to a group of people, which is due to some lawful or illegal discriminatory mechanism not included in the society, while the extremely poor are often affected by social exclusion) and hence also of public safety and more.

Analyses of each of the poverty dimension don't include only the actual indicators, but also the cause of revealed values. In reality, it is not easy to capture the nature of poverty using either a single unior multidimensional definition or measure, because poverty can be defined in several ways (Fusco, 2003). Bellani and D'Ambrosio (2010) state that deprivation and poverty can be defined as a condition in which a person is deprived of the essentials necessary for reaching a minimum standard of well-being and life. Guio (2005, p. 2) defines material deprivation as "the enforced lack of a combination of items depicting material living conditions, such as housing conditions, possession of durables, and capacity to afford basic requirements."

An identification of deprivation is performed by using socio-economic categorization of living standards (MPSV, 2010). Threatened by material deprivation are the people who can not afford at least three of the nine items listed below (EU Social Protection Committee, 2009):

- 1. to pay a rent, mortgage, other loans and utility bills,
- 2. to keep their home adequately warm,
- 3. to face unexpected expenses,
- 4. to eat meat (or another adequate source of proteins) regularly,
- 5. to go on holiday,
- 6. some audio-video equipment (orig. 'TV set'),
- 7. a refrigerator,
- 8. a car,
- 9. a phone (regular or GSM).

Each of the categories is examined in more details or with more specific purpose. For example, when exploring the ability to pay for arrears also the size of burden is ascertained: 'large burden', 'some burden' or 'no burden'. Saying this, it does not mean that the expression of poverty with use of income indicators lost its importance. On the contrary, it is widely used as comparative indicator, while the assessment is not based on absolute but a relative conception – the European statistics work with so called at-risk-of-poverty-threshold which was defined as 60% of national median income by EUROSTAT (see Halleröd, Larsson, 2008). Guio (2005) highlights the close connection of income distribution and deprivation situation.

3 Methodology

The EU-SILC (European Union Statistics on Income and Living Conditions) project is based on the primary investigations of income levels. The Czech Republic implements module "Living Conditions" from the European Parliament and EU Council Czech Statistical Office regulation annually. For the purpose of this paper, four countries as representatives of four zones of cultural kinship defined by Svetlik (2003) were selected. These representatives are Finland, France, Spain and United Kingdom. The Czech Republic was added to these countries. The main sources for comparisons were the data provided by Eurostat. Table 1 presents information on the number of household in the selected countries participating in EU-SILC data collections in 2005 and 2010. The table also includes available information on the number of households living below the poverty line (defined as 60% of median equivalised income) in these years.

Table 1: Numbers of households participating in EU-SILC data collections

Country	Number of households	2005	2010
Cash Danublia	total	4,351	9,098
Czech Republic	living below the poverty line	453	819
Finland	total	11,229	10,989
riniano	living below the poverty line	1,314	1,440
France	total	9,775	7,250*
France	living below the poverty line	1,271	972
Spain	total	13,027	13,597
Spain	living below the poverty line	2,580	2,815
United Kingdom	total	10,826	8,109
Officea Kingdom	living below the poverty line	2,036	1,387

^{*} The size of the sample replaced by Minimum effective sample size provided by Eurostat due to data unavailability at the date of paper elaboration

Source: Eurostat, 2011, calculations of authors

The selected years for comparison are 2005 and 2010, because 2005 represented a first period in which the EU-SILC investigation was carried out in the Czech Republic, and 2010 represents the latest available period at the time of this publication.

Material deprivation criteria are divided into 4 groups: Financial stress, Housing conditions, Availability of consumer durables and Basic needs. The group Financial stress assesses the load of housing costs and difficulties of such households to make ends meet. The Housing conditions are considered from two perspectives, the quality of environment (noise, pollution, crime and vandalism) and amenities (equipped with shower or bath and flush toilets, roof leakages, moisture, the light conditions). Under Consumer durables we understand a phone, a color TV set, a personal computer, a washing machine and a car. Keeping the home adequately warm, ability to spend a week-long holiday away from home, consumption of meat every other day and ability to face unexpected expenses are representing the basic needs.

These indicators reflect the total number of households, and the share of households below the poverty line, which receive special attention. The criteria take into account the subjective opinion of head of a household. For the evaluation comparative descriptive statistic procedures were applied.

As materially deprived households are referred to those who miss 3 or more of the total number of 9 items defined by the EU Commission for Social Protection & Social Inclusion, and if 4 or more of these items are missed, the households are considered severely materially deprived. These nine items should reflect that the household has the ability to pay its rent, mortgage, other loans and utility bills of the household, and the ability to keep the home adequately warm, the ability to face unexpected expenses, to eat meat or proteins regularly, to go on holiday once a year, the ownership

of a TV set, a refrigerator, a car and a telephone (landline or GSM). The aim is to identify issues that can be symptoms of deprivation in individual of selected countries.

4 Results

The head of household presents his (her) subjective opinion on criteria that can be divided into the following four groups: Financial stress, Housing conditions, Availability of consumer durables and Basic needs.

The first indicator of Financial stress reflects perception of the burden imposed by housing costs and examines it from the point of view of the difficulties of households based on its income. The housing costs, shown in Table 2, are for most of Czech households 'some burden'. Different situation can be observed in France, where most of the households do not consider these costs as any burden. The opinion distribution of Spanish households is interesting. In 2010, housing costs were perceived as high burden by 51.4% of them and some burden by 45.7%, and thus in comparison with 2005, it is possible to observe an increase in number of households considereing their housing costs as a high burden.

Economically weak households in the Czech Republic reported inter-annual shift directed into the 'high burden' category. Housing costs were generally the most progressively growing category, which was reflected mainly in this household segment. The proportion of reported 'high burden' of housing costs was increased by 6.4% (from 50.1% in 2005). In contrast, the proportion of 'some burden' fell from 44.2% in 2005 by 4.5% in 2010 and 'no burden' by as much as 2% to 3.7%.

Spanish households below the poverty line also perceive their housing costs as high burden: in 2010 it represented 66.7% of the households, which is by 39.1% more than in Finland. In France, the share households below the poverty line between the 2005 and 2010 changed and number of household that perceived the housing cost as 'high burden' increased by 13.1%. In 2010, British households had roughly equal representation of perception 'high burden' and 'some burden'. When compared with other countries, it is possible to observe the highest proportion of households below the poverty line indicating the cost of housing as a 'no burden', but even here we can see an increase by 3.3% in 2010.

Table 2: Housing costs

	Material deprivation – housing costs (%)										
Country	Number of households (%)	High b	urden	Some	burden	No burden					
	(70)	2005	2010	2005	2010	2005	2010				
Czech	total	24.4	26.1	64.3	65.2	11.3	8.8				
Republic	living below the poverty line	50.1	56.5	44.2	39.7	5.7	3.7				
Finland	total	19.7	18.4	56.3	56.2	24.1	25.4				
Fillianu	living below the poverty line	26.8	27.6	52.0	48.7	21.2	23.7				
France	total	20.9	27.1	30.8	24.1	48.4	48.8				
France	living below the poverty line	35.2	48.3	32.1	23.6	32.7	28.1				
Snain	total	46.4	51.4	50.1	45.7	3.5	2.9				
Spain	living below the poverty line	57.0	66.7	40.2	31.7	2.8	1.6				
United	United total		26.2	44.8	43.3	30.2	30.2				
Kingdom	living below the poverty line	36.0	41.1	42.0	40.3	21.9	18.6				

Households could also express their opinions on their financial stress through the assessment of with what difficulties they meet both ends with their incomes, using a six-level scale: from 'with great difficulties' to 'very easily'. In 2005 the largest share of households with the evaluation 'very easily' was in Finland (11.6%) and UK (8.1%). In 2010, in Finland this level even increased to 14.9%, while in Britain there was a slight decrease of 0.7%. Spaniards seem to face the greatest difficulties to meet both ends. In the Czech Republic, the number of households experiencing great difficulties when trying to meet both ends dropped from 10.6% to 8.4%; thus reached the second position behind Spain.

When comparing the assessments of economically weak households, we can see that the Czech Republic has the highest proportion of households below the poverty line which perceive that they meet both ends due to their the income 'with great difficulties'. Despite the decrease from 40.4% in 2005 to 37% in 2010, the level is still 6.9% higher than in the case of Spain, and 28.6% higher than in Finland. Equally interesting is the fact that none of the households below the poverty line in the Czech Republic expressed that it can handle its financial situation 'very easily'. Most of the Finnish economically weak households assessed that they can meet both ends 'fairly easily' (31%) or 'with certain difficulties' (28%), while we can see that between the analyzed years there was a slight decrease in levels of 'with great difficulties' and 'quite easily' in favor of increases in assessments 'easily' and 'very easily'. In France, the development was the opposite. The first two categories experienced an increase of representation of economically weak households, and decreased share of assessments of categories from 'with ertain difficulties' to 'very easily'.

Another significant indicator of material deprivation is the housing conditions. The Housing conditions are considered from two perspectives: the quality of environment (which takes into account noise, pollution, crime and vandalism) and amenities (equipped with shower or bath and toilets, roof leakages, moisture, the light conditions – dark dwelling). The Tables 3 and 4 provide more information on the evaluation of these parameters.

The biggest noise problems experience the British households (20.1%). In Spain and France about the same number of households (18.7% and 18.5%) identifies noise as a serious problem too. Pollution is the biggest problem for Czech households (18.5%) and lowest for Finland (8.5%). The most serious crime and vandalism problems connected to respondents' dwellings were identified by 23.1% of households in the UK. An interesting fact is that for all the elements of the dwelling environment quality the share of households considering these issues as their serious problem descreased between 2005 and 2010 in all the countries.

From the point of view of households below the poverty threshold is somewhat different though. Noise is the biggest problem for economically weak French (25.4%) and British (21.9%) households. Pollution in the surroundings of the dwelling is the most serious in the Czech economically weak households, more than noise and crime and vandalism. In the UK, 27.5% of economically weak households live in areas with high crime rate and vandalism, which is more than 50% more than in Finland. Among the evaluated elements, noisy environment is considered as the biggest problem of economically weak households in France, Spain and Finland. In France, however, the severeness of the noise problem reaches about the same level as crime and vandalism, which are identified as the biggest problem of economically weak households in the UK.

It is interesting to see that both in case of all households and in case of households living below the poverty line in all countries the problems with the dwelling environment we in 2010 assessed as less problematic as in 2005. Particularly there was a decrease in number of household perceiving the above mentioned 3 elements as a serious problem, with the exception of crime and vandalism in France, where there was an increased level in 2010 compared to 2005.

Table 3: Problems with the quality of dwelling environment

	Material deprivation – problems with dwelling conditions (%)									
Country	Number of households (%)		Noise		ution	Criminality and vandalism				
		2005	2010	2005	2010	2005	2010			
Czech	total	21.3	16.5	19.8	18.5	16.5	15.4			
Republic	living below the poverty line	26.7	17.8	20.0	18.9	22.4	17.4			
Finland	total	16.3	13.0	12.8	8.5	17.3	8.7			
Fillialiu	living below the poverty line	19.4	18.2	11.6	9.5	16.7	13.3			
France	total	20.1	18.5	17.1	12.9	17.5	15.6			
France	living below the poverty line	25.8	25.4	19.6	17.1	21.4	25.2			
Cnain	total	28.5	18.7	16.7	10.8	19.2	13.1			
Spain	living below the poverty line	26.4	19.1	15.8	10.1	18.4	15.4			
United	total		20.1	14.1	11,8	30.0	23.1			
Kingdom	living below the poverty line	27.3	21.9	13.7	12.5	32.3	27.5			

As we can see in Table 4, almost all households in selected countries have a bath or shower and indoor toilet, though no data are available for 2010 for Spain. Anyway, the shares of households that do not own these amenities are very low; in case of the UK it indeed is 0% of all economically weak households. The biggest shift between 2005 and 2010 was recorded in the Czech Republic, where the number of households fell from 1.2% to 0.3%. Despite this fact, the Czech Republic had the highest number of economically weak households without a bath, shower, indoor toilet (1.6%) which, however, also represents a significant decrease (by 4.8%) when compared to 2005.

Roof leakages, moisture and rottness bothers Spaniards (21.3%) the most and Finns the least (5%). Similarly, most households living below the poverty threshold are in Spain (28.9%), which is actually even an increase of 5.7% when compared to 2005. In the UK there was an increase of 1% to 22.5% between the analyzed periods and in France an increase of 0.4% to a level of 21.1% of economically weak households. In the Czech Republic showed a positive change. When we compare the results for 2005, 33% of households living below the poverty line had problems with roof leakages, moisture and rot; the level was reduced by as much as 8%.

Perception of their dwelling as too dark is most often expressed by British households (10.3%) and the least frequently by Czechs (3.7%). The situation of economically weak households is different though. The highest share of unhappy ones with the light conditions of their dwellings are French economically weak households (13.1%); the number in 2010 was higher than in 2005, just like in Finland. In contrast, in other countries the shares declined, most significantly in the case of Spain.

Table 4: Problems with the housing conditions

	Material deprivation – problems with dwelling amenities (%)									
Country	Number of households (%)	-	/ shower, r toilet	Leakin	g roof	Dwelling too dark				
	(70)	2005	2010	2005	2010	2005	2010			
Czech	total	1.2	0.3	20.5	11.8	6.2	3.7			
Republic	below the poverty line	6.4	1.6	33.0	20.0	12.7	7.0			
Finland	total	0.7	0.5	4.9	5.0	3.8	4.2			
Fillialiu	below the poverty line	2.4	1.5	7.9	8.5	4.7	5.5			
Eranco	total	0.5	0.3	12.3	12.5	7.8	8.3			
France	below the poverty line	1.5	0.7	20.7	21.1	11.7	13.1			
Cnoin	total	0.3	-	17.3	21.3	10.4	5,3			
Spain	below the poverty line	0.6	-	23.2	28.9	13.4	6.5			
United	total	0.0	0.0	14.5	15.0	11.6	10.3			
Kingdom	below the poverty line	0.1	0.0	21.5	22.5	13.9	10.7			

The third indicator focuses on household durables, which include a telephone, a color TV set, a computer, a washing machine and a car. The shares of households with a constrained lack of the mentioned items are shown in Table 5.

All the items in all analyzed countries indicate generally discussed trend – increasing level of households' physical facitilies and equipment. Among all, the most significant increase in ratio of ownership was recorded for a computer, reflecting the boom in information technology coupled with the wide penetration of the Internet connection.

In the Czech Republic, the second most growing category was the car ownership (by 5.3% between analyzed years). Nevertheless, the Czech Republic is the country with the highest proportion of households without a car. In contrast to this fact, only 3.6% of French households didn't own a car in 2010. 1% of Finnish households didn't own a color television, which is the highest among the concerned countries. Just as in case of the washing machine ownership. There are 6.3% of Spanish households which do not own a computer just as well as Czech households. In both countries there has been a growth in ownership of this consumer durable item.

Czech households below the poverty line increased the amount of their durables faster than the examined sample set (their mean was 6.1% versus 3.18% for all households). For the economically weak households the most slowly growing share was the ownership of a car (4.2%), which is due to the relatively high cost. In contrast, the growth in ownership of color TV set among the economically weak households was nearly 4 times higher (1.5% vs. 0.4%), five times higher for the phones (7.1% among the poor compared to 1.4% of total).

Only in France and United Kingdom there was in increase in number of households living below the poverty line not owning a car. In France, this proportion increased from 13.5% to 14.4%, in the UK from 13.9% to 1.2%.

Table 5: Household ownership of consumer durables

	Material deprivation – lack of household durables (%)										
Country	Number of households	Telep	hone	Color TV		Computer		Washing machine		Car	
	(%)	2005	2010	2005	2010	2005	2010	2005	2010	2005	2010
	total	1.8	0.4	0.6	0.2	14.9	6.3	0,5	0.3	15.5	10.2
Czech Republic	below the poverty line	9.6	2.5	3.3	1.8	43.1	26.0	2,7	2.1	43.6	39.4
	total	0.3	0.0	0.9	1.0	7.2	2.9	1,3	0.8	9.1	8.5
Finland	below the poverty line	0.9	0.2	4.3	4.6	22.0	10.5	6,2	4.0	29.7	30.4
	total	0.8	0.1	0.3	0.1	9.3	4.0	1,0	0.7	3.9	3.6
France	below the poverty line	2.5	0.6	1.4	0.7	24.4	12.2	4,3	2.8	13.5	14.4
	total	0.7	0.4	0.2	0.1	11.3	6.3	0,3	0.1	5.5	4.7
Spain	below the poverty line	2.2	1.1	0.7	0.3	20.2	13.1	1,1	0.4	12.1	10.8
	total	0.2	0.2	0.2	0.1	6.5	3.4	0,6	0.4	5.3	6.1
United Kingdom	below the poverty line	0.7	0.6	0.7	0.1	13.4	8.8	1.5	1.7	13.9	15.1

Source: Authors' calculations based on Eurostat data

The last indicator of material deprivation deals with basic needs. These needs are: adequate heating of dwelling, a week long holiday at least once a year, eating meat or proteins at least every other day (including fish and chicken), and the ability to pay an unexpected expense. The values for households which cannot afford to meet these needs are listed in Table 6.

It would be expected that the need of adequate heating of the dwelling would not be met only in marginal cases, despite of that, the inability to meet this need reached 11.2% of Czech economically weak households in 2010, which, however, means a significant decrease when compared with 19.5% in 2005. The best situation among the selected countries is in Finland, where in 2010 only 1.4% of all households and 3.5% of households below the poverty line had inadequate heating of their dwelling. On the other hand, in Spain, 7% of all households suffered from lack of adequate heating in 2010, which got in front of the Czech Republic as a country with the highest number of households indicating their dwelling as inadequately heated. Most households below the poverty line without

adequate heating live in France (15.3%), where we can see an increase of 2.4% when compared to 2005. In case of Spanish economically weak households, the situation in both analyzed years was relatively stable (15.2% in 2005 and 15.1% in 2010).

Table 6: Basic needs

	Material deprivaton – other basic needs consumption categories (%)										
Country	Number of households	Inadequate heating of home		A one week holiday		Meet every other day		Unexpected expenses			
	(%)	2005	2010	2005	2010	2005	2010	2005	2010		
Czech	total	9.3	5.2	40.6	39.5	17.8	9.7	42.9	37.9		
Republic	below the poverty line	19.5	11.2	79.8	76.7	43.7	27.8	81.4	77.7		
	total	2.6	1.4	19.9	14.7	2.9	2.9	33.0	28.1		
Finland	below the poverty line	4.0	3.5	49.2	35.8	9.6	7.9	65.2	59.1		
	total	5.3	5.7	31.3	28.7	6.3	6.9	35.6	33.1		
France	below the poverty line	12.9	15.3	63.2	62.5	16.3	20.3	67.3	70.5		
	total	8.5	7.0	40.9	40.8	2.3	2.4	33.3	63.3		
Spain	below the poverty line	15.2	15.1	63.7	65.3	6.4	4.8	53.2	60.2		
United	total	5.7	6.1	23.3	27.3	6.2	5.1	30.8	34.7		
Kingdom	below the poverty line	11.0	11.9	46.2	51.4	13.3	10.9	54.0	56.0		

Source: Authors' calculations based on Eurostat data

For all Czech households the inability to spend a one week holiday away from home once a year dropped by 1.1% and by 3.1% for economically weak households. In 2010, there were 40.8% of Spanish households who could not afford a one week holiday as compared to only 14.7% of Finnish households. What the economically weak households concerns, there were 76.7% of Czech households which could not afford holiday, while in Finland it was even less than half of this level.

The inability to afford meat every other day has decreased by 8.1% within the analyzed period for all the Czech households and by 15.9% for the households living below the poverty line. Interestingly, Spain is a country in which only 2.4% of all households and 4.8% of households at-risk-of poverty could not afford meat every other day.

What is also worth mentioning is certainly the fact that only 77.7% of Czech economically weak households are unable to pay an unexpected expense. Similar situation is in France, where there are 70.5% of such households, Spain with 60.2%, Finland with 59.1% and 56% for UK and its households living below poverty line.

4.1 The level and the depth of material deprivation

After making the analyses of individual indicators of material deprivation it is essential to take into account the total number of households and households living below the poverty line who are materially deprived. The percentages of materially deprived and seriously materially deprived households in each country are presented in Table 7.

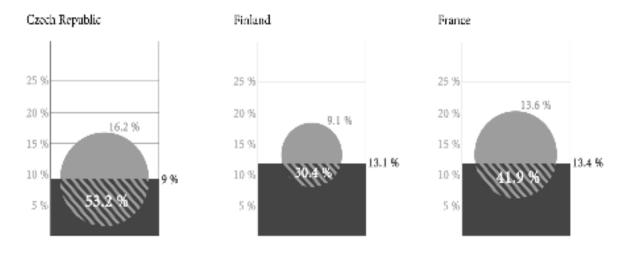
Table 7: Materially deprived households.

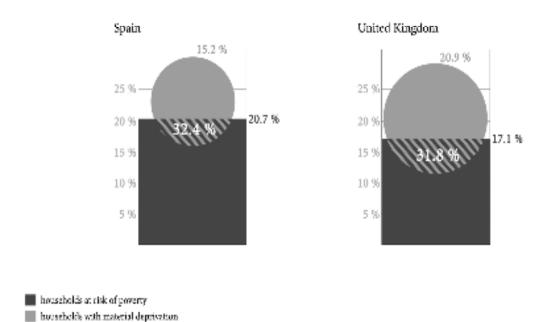
Material deprivation										
Country	Number of households (%)		deprived holds	Severely materially deprived household						
	(70)	2005	2010	2005	2010					
Czech	total	25.7	16.2	15.5	7.9					
Republic	below the poverty line	68.2	53.2	50.3	37.0					
Finland	total	12.4	9.1	5.6	3.6					
Finiand	below the poverty line	38.8	30.4	21.7	14.2					
France	total	15.7	13.6	7.5	6.7					
France	below the poverty line	42.5	41.9	25.4	25.2					
Spain	total	14.5	15.2	5.8	5.6					
Spaili	below the poverty line	29.6	32.4	14.5	15.0					
United	United total		20.9	6.5	6.0					
Kingdom	below the poverty line	32.0	31.8	17.1	14.9					

Source: Authors' calculations based on Eurostat data

For greater clarity the intersections in the following sets of graphs show the number of materially deprived households in 2010 and the number of households at-risk-of poverty.

Figure 1: Materially deprived households at risk of poverty, 2010





Inouseholds at risk of powerty with material deprivation.

The highest share of materially deprived households is in the UK, it is over one fifth of all households, which makes the UK the only country out of the selected ones for our analysis material with greater number of deprived households than what is the European Union mean (18.5% in 2010). On the other hand, Finland has only about one tenth of their households who suffer from material deprivation. In 2005, when the European mean was 22.4%, the value for the Czech Republic reached 25.7% of all households who missed 3 or more items in the earlier mentioned list. In 2010, this value decreased to 16.2%.

The situation of Czech households living below the poverty line was following. In 2010, there were 53.2% of the household materially deprived and 37% of them even seriously materially deprived. Even though there was a decrease when compared to 2005 (15% in material deprivation, and 13.3% in severe material deprivation), but it does not change the fact that the Czech households are the worst off among the selected countries, even in 2010, their share is above the European mean, which is 44.8%. For both analyzed, out of the European Union countries, only Latvia, Lithuania, Hungary and Poland had more materially deprived households than Czech Republic, and in 2010, also Bulgaria, Estonia, Greece, Romania, Slovakia and Croatia. In 2005, the data was not collected only for Romania and Croatia.

Out of the selected countries, the lowest share of materially deprived economically weak households live in Finland (14.2%) which is only about 0.7% less than in the UK. In Finland, however, there was a dramatic decrease from the value of 21.7% in 2005. The number of households in France stayed at about the same level (25%) for the two analyzed years.

It is essential also to mention the various levels of material deprivation. In 2005, the highest number of households living without any material derpivation lived in the UK (61%), in 2010 it was in Finland (63.5%). The highest share of households with material deprivation of level 0, meaning the households were not materially deprived, was for both years in the UK (35.7% in 2005 and 34.9% in 2010).

At this point it is appropriate to explain the indicator depth of material deprivation, which is the ratio defined as the unweighted mean number of items missed by materially deprived households. Figure 2 presents the results of this indicator for selected countries for years 2005 and 2010.

EU **United Kingdom** Spain France Finland Czech republic 3,1 3,2 3,3 3,4 3,5 3,6 3,7 3,8 3,9 **■ 2010 ■ 2005**

Figure 2: The depth of material deprivation

In 2005, the Czech Republic experienced the most profound material deprivation (3.8 items) as well as in 2010, when there has been a decline to the level of France in both analyzed years (3.6 items). The positive fact is that in both analyzed years, all the selected countries reached better results than the European mean.

In 2010, households in Romania (4.2 items), Bulgaria and Latvia (4.1 items) were the worst condition in the EU. The depth of material deprivation in these countries suggests that the conditions are serious. The countries with the lowest depth of material deprivation in the EU are the Netherlands, Spain, Iceland (3.4 items) and Finland (3.5 items).

5 Discussion and conclusion

The conducted analyses of material deprivation revealed some interesting facts. One fact is that UK is the country with the highest share with materially deprivation households, however the highest rate of economically weak households which are materially deprvided are;in the Czech Republic (53.2%). We can view it as a positive that the number decreased by 15% in 2010 when compared to values of 2005. A decrease also occurred in case of materially seriously deprived for the Czech households, because 7.9% of all households and 37% of all economically weak households can not afford 4 of 9 items defining material deprivation. At least materially deprived households selected from among States live in Finland (9.1%), where he also lives at least in the range of poverty households, which are marked as materially deprived.

The burden of housing costs appears to be greatest for Spanish households living below the poverty line, namely to 66.7%. The level 'no burden'at all hast the highest representation in French economically weak households, nevertheless, n France, a growth of share of household who cannot afford adequately heatead household between the analyzed years 2005 and 2010 (from 12.9% to 15.3%).

When looking at the individual items assessing the dwelling environment, the most problematic to economically weak households are noise in France (25.4%), pollution in the Czech Republic (18.9%) and crime and vandalism in the United Kingdom (27.5%). Problems with the dwelling conditions are essential especially in the Czech, where 28.9% of economically weak households experience roof leakages and moisture and rot in their homes. Dwellings equipped with shower, bath and indoor toilets is almost commonplace, however, the highest share of hoseholds who lack these are the Czech Republic (1.6%) and Finland (1.5%). Too dark dwellings are reported by 10.7% economically weak British households.

An indicator that doesn't display any serious insufficiency in economically weak households is the availability of household durables (exept for cars and computers). A telephone is nowadays almost standard equipment in all households and even in households living below the poverty line. The results show that the share of households which can not afford the phone is in the range from 0.2% (in Finland) to 2.5% (Czech Republic). In Finland, however, there are 4.6% of economically weak households which can not afford to own a TV set (it is the highest level among the countries concerned). Interestingly, there are more households in the Czech Republic that own a color TV than those which own a washing machine.

Noteworthy is also the fact that in all analyzed selected countries, more than a half of households at-risk-of-poverty cannot afford one-week holiday away from home. A meal with meat is a normal element of most economically weak households in Spain, where only 4.8% of households cannot afford eating meat at least every other day, however, in the Czech Republic, it is typical for 27.8% of economically weak households. Alarming is the finding that in all analyzed countries a majority of households at-risk-of-poverty cannot face unexpected expenses, most notably in the Czech Republic (77.7%).

We can conclude that out of the analyzed countries it is Finland with the best situation, where only 30.4% of the economically weak households is identified as material deprived and 14.2% as severely materially deprived, the lowest share among the selected countries. Finnish economically weak households also showed the best scores in the majority of items in the assessment of individual indicators. In Finland also showed the lowest depth of material deprivation.

Although the Czech Republic has long maintained the position of a country with the lowest share of households at risk of poverty in the EU (9% in 2010), it must be noted that more than half of these households are described as materially deprived and 37% of them even as seriously materially deprived, that is, although there was a large drop since 2005, the highest percentage among the selected countries. The fact that households are unable to face unexpected expenses and that they have big problems with the housing conditions and provision of basic needs creates a potential threat of social exclusion with all its negative consequences. Therefore, it is necessary to point out that despite the generally perceived fact that the Czech Republic belongs to economically advanced countries it is not correct to ignore the issue of poverty in this country.

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