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# THE ROLE OF SOCIAL CAPITAL IN SELF-PERCEPTION OF POVERTY AND THE IMPLICATIONS FOR PUBLIC POLICY. AN EXPLORATORY ANALYSIS\*\*\*

Abstract: This paper aims at showing to what extent self-perceived poverty in Europe is associated with specific household socioeconomic characteristics and particular aspects of household/community social capital endowment, in order to disclose the primary risk factors of family poverty status. Such evidence would help central and local governments to define those economic and social goals which should receive more attention by policies aiming at poverty eradication. In particular, the paper focuses on the associations between a proxy of subjective poverty (ability to make ends meet) and two sets of variables describing, respectively, the household socioeconomic characteristics and the household/community social capital endowment. In order to pursue this aim, a multiple correspondence analysis is carried out. The empirical analysis is based on the 2009 EU-SILC survey and the Eurostat statistics database. The results show a relevant association between self-perceived poverty and both household socioeconomic characteristics and social capital. Implications for public policies are also discussed.

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Keywords: subjective poverty, social capital, public policies, EU-SILC, multiple correspondence analysis.

### 1. Introduction

Measuring poverty and understanding why it occurs represent, nowadays, a core task for both researchers and policy-makers in advancing towards the eradication of poverty. Poverty is a concept lacking a universally acceptable definition and often faced with competing interpretations: poverty is difficult to define, but it is even harder to measure. Since many years, both researchers and policy-makers have shown an increasing interest towards the subjective (Goedhart et al., 1977; Van Praag et al., 1980) and multidimensional (Massoumi, 1986; Case, Deaton, 2002; Deutsch, Silber, 2005; Van Praag, Ferrer-i-Carbonell, 2005) aspects of poverty, arguing that poverty is not an objective status based exclusively on the level of income necessary to satisfy needs, but depends on people's perceptions and feelings, on the resources essential for full participation/inclusion in society and on environmental aspects (Tomlinson, Walker, Williams, 2007; Van Praag, Ferrer-i-Carbonell, 2005).

Social capital plays a crucial role here. According to the most widely accepted definition suggested by the World Bank Social Capital Initiative Program research group, social capital includes the institutions, the relationships, the attitudes and values that govern interactions among people and contribute to economic and social development (Grootaert, van Bastelaer, 2002). This definition synthesizes the different points of view expressed by Putnam et al. (1993), Coleman (1990), Olson (1982) and North (1990) and implies that living in a society characterized by model and cooperative behaviour, and where trust replaces suspicion and fear, can have a systematic positive effect on individuals' perception of poverty, as their socioeconomic vulnerability is reduced as well as the resources they need to deal with risk and to avert major losses (Helliwell, 2001).

Several empirical studies have shown how and to what extent in Europe self-perceived poverty is associated with household size and type, with available household resources (Van Praag, Van der Sar, 1988; Ravaillon, Lokshin, 2002; Castilla, 2010), with indi-

vidual and household socioeconomic characteristics (i.e. gender, age, employment status, education, tenure status, the residence area) (Ravaillon, Lokshin, 2002; Stanovnik, Verbic, 2004; ISTAT, 2008; ISAE, 2009). Limited attention has been, instead, devoted to the analysis of the relationships with household and community social capital endowment. This occurred despite its growing importance as a major determinant of economic well-being¹ at micro and macro level that has increased its implications in social policy as a tool to achieve better outcomes of traditional public policies for poverty reduction. The mechanism through which social capital is said to reduce poverty can be summarized as follows:

- 1. at the micro level, social ties and interpersonal trust facilitate the flow of technical information and knowledge that help to reduce economic transactions costs (Barr, 2000) and ameliorate conventional resource constraint such as labour (Coleman et al., 1966; Granovetter, 1995; Fernandez et al., 2000) and credit market access or credit limitations thus reducing the vulnerability of households to poverty (Knack, 1999);
- 2. at the macro level, social engagement and civic responsibility can also strengthen democratic governance (Almond, Verba, 1963), a mix of norms and sanctions can control defection and dishonesty (Bebbington, Perreault, 1999) and improve the efficiency and honesty of public administration (Putnam et al., 1993; Fukuyama, 1995) and economic policies (Easterly, Levine, 1997). Moreover, social capital can be viewed as a form of asset embedded in social structures and relationships with a productive capacity that can be extended beyond generating economic returns to providing useful benefits for attaining many other different goals (Knack, Keefer, 1997) [i.e. human capital accumulation (Galor, Zeira 1993; Coleman, 1988), social efficient outcomes such as social cohesion (Reimer, 2002; Green et al., 2003), social capability (Abramovitz, 1986; Abramovitz, David, 1996) and so on]<sup>2</sup>.

Taking into account these observations, this paper aims to show through a cross-country comparative analysis to what ex-

<sup>&</sup>lt;sup>1</sup> In this paper the term *economic well-being* is used as a synonymous for *economic conditions*.

<sup>&</sup>lt;sup>2</sup> However, it is worth noting that implications of social capital are not always the same everywhere. Actually, as Krishna and Shrader (1999) pointed out: "What is social capital in one context may be *unsocial* capital in another [....]".

tent self-perceived poverty in European countries is associated with specific household socioeconomic characteristics and particular aspects of household/community social capital endowment in order to disclose the primary risk factors of family poverty status. Such evidence would help central and local governments to define those economic and social goals which should receive more attention by poverty reduction policies.

In order to pursue this aim a multiple correspondence analysis (MCA) is carried out; as a matter of fact, MCA allows to analyze the pattern of relationships of several categorical variables and to extract a reduced number of latent variables (factors) which we can interpret as poverty risk factors. The empirical analysis is based on the 2009 EU-SILC survey and the Eurostat statistics database.

The paper is organized as follows: section 2 describes the data and the methodology used, section 3 presents the results and section 4 provides some concluding remarks and future research prospects.

### 2. Data and methodology

In order to study associations between subjective poverty and household socioeconomic characteristics and social capital, we carry out a multiple correspondence analysis (MCA) on data from the 2009 cross-sectional EU-SILC survey and Eurostat statistics database<sup>3</sup>.

The household subjective poverty is expressed by the proxy categorical variable *ability to make ends meet*. Its categories are: with great difficulty; with difficulty; with some difficulty; fairly easily; easily; very easily.

<sup>&</sup>lt;sup>3</sup> EU-SILC is the Eurostat project on Income and Living Conditions which involves all the 27 European countries. EU-SILC is the reference source for comparative studies on income distribution, poverty and social exclusion at European level (Santini, De Pascale, 2012a,b) with the purpose of monitoring household economic and social conditions for aware planning of economic and social policies (Clemenceau et al., 2006). EU-SILC provides two types of data, cross-sectional and longitudinal over a four year period (EU-SILC uses a four-years rotational design). These data were made available under the Eurostat research contract EU-SILC/2011/18.

The multiple correspondence analysis (MCA) is carried out on 216.252 sample units (households) so as to depict the main associations between the household subjective poverty proxy (set as supplementary variable together with the variable *country*) and two sets of active variables (67 in all with 229 categories) describing, respectively,

- 1) the respondent/household socioeconomic characteristics<sup>4</sup>: age, gender, marital status, education, employment status, work intensity status, branch of activity, at risk of poverty and social exclusion, general health, house/flat size, tenure status, dwelling type, household type, equivalized disposable income, poverty and deprivation indicator, financial burden of housing cost, debts, family/children social exclusion, housing, cash and alimonies received. To take into account the high degree of heterogeneity in socio-economic well-being across the 27 European country, the following indicators are also included: GDP per capita in PPS, unemployment rate, at risk of poverty rate, percentage of population at risk of poverty, social exclusion or deprivation, percentage of persons aged 25 or over with upper secondary or tertiary education attainment.
- 2) the household/community social capital endowment<sup>5</sup>. The proxy variables selected are indicators of the level of:
  - social behaviour (SB), population socioeconomic characteristics that facilitate/hinder the development of social and economic cooperative behaviour;
  - social relationships (SR), measures of the potential and actual degree of social relationships;
  - some specific territorial and environmental characteristics

<sup>&</sup>lt;sup>4</sup> Respondent's socioeconomic characteristics are included as active variables to take into account the features of the person who answers, on behalf of the whole family, to the household questionnaire and, in particular, to the question on *ability to make ends meet*.

<sup>&</sup>lt;sup>5</sup> Despite some shortcomings, the EU-SILC cross-sectional survey and the Eurostat statistics database represent an important reference source for comparative studies aiming at measuring the effect of social capital on household economic well-being, especially because they provide comparable and high quality cross-sectional indicators for all the 27 European countries (see, for further details, Santini, De Pascale, 2012a,b). Social capital indicators, when available, are measured both at household and societal level in order to take into account both the families' status and that of the community they belong to; here, due to the lack of more detailed information, community stands for the country where families live.

which are significant determinants of social capital forma-

A complete list of all variables is provided in the Appendix (Table A1, A2.1-A2.3 and A3).

### 3. Results

The variability explained by the first three factorial axes of MCA is 56,8% (computed with the correction formula due to Benzécri, 1979). The interpretation of the results will be limited to the first, second and third factorial axis as they seem to give answer to the questions this paper aims to investigate. The detailed description of each factorial axis is provided by Tables 1, 2 and 3 and a synthetic view of the results is presented in Figures 1, 2 and 3.

Subjective poverty is the respondent's assessment of own household economic well-being and aims to capture the inherent subjectivity and multidimensionality of poverty. Actually, the results of the MCA show that in Europe households subjective poverty is associated with at least three aspects:

- a. the household economic conditions;
- b. the degree of family and social distress;
- c. the level of community social capital endowment. In particular:
- a) the *household economic conditions* go through different variables such as household disposable income, deprivation, tenure and work intensity status, size and type, some respondent's socioeconomic characteristics (i.e. age, education, employment, health and marital status), and those household/community social capital endowment indicators strongly associated with household economic well-being, as clearly shown by the first factorial axis (see Table 1 and Figure 1). As a matter of fact, difficulties in making ends meet prevails in severely deprived households with low equivalized disposable income, whose respondent is mostly 65 years or over, widowed, low educated, retired, at risk of poverty and reporting bad health. Moreover, difficulty in making ends meet is associated with modest conditions of the house<sup>6</sup>, generally provided free, as well as scarce availability of devices which

<sup>&</sup>lt;sup>6</sup> Specifically, small houses (the size is measured by number of rooms and sqm), without hot water.

Tab. 1 - Multiple correspondence analysis: categories in ascending order according to their coordinates on the first factorial axis (F1).

Variable name	Category
Phone	No
Hot water	No
COUNTRY	Romania
COUNTRY	Bulgaria
HOUSING COST	No cost
COUNTRY	Lithuania
DEPRIVATION_H	Yes
DEPRIVATION_C	High
AT RISK OF POVERTY_H	Only deprived
HEALTH STATUS	Very bad
COUNTRY	Latvia
AGE	80+
EQUIVALIZED DISPOSABLE	
INCOME	1st quintile
MARITAL STATUS	Widow
AT RISK OF POVERTY_H	Other at risk
HEALTH STATUS	Bad
ROOMS	1 room
Overcrowding rate	High
PC	No
Size of dwelling	<=50_sqm
COUNTRY	Hungary
AT RISK OF POVERTY_C	High
EMPLOYMENT STATUS	Retired
AGE	65-79
Internet connection	No
ABILITY TO MAKE ENDS MEET	Great difficulty
ROOMS	2 rooms
HOUSEHOLD TYPE	2 adults, atleast one>65
HOUSEHOLD TYPE	Oneperson
	-
POVERTY_H	Yes
POVERTY_H Get-together with friends	Yes No
Get-together with friends	No
Get-together with friends COUNTRY	No <b>Poland</b>
Get-together with friends COUNTRY GDP	No <b>Poland</b> Low
Get-together with friends COUNTRY GDP BRANCH	No Poland Low Not working
Get-together with friends COUNTRY GDP BRANCH Crime rate Family workers Housing deprivation rate	No Poland Low Not working Low Low
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Get-together with friends COUNTRY GDP BRANCH Crime rate Family workers Housing deprivation rate (H1C) POVERTY_C Leisure activities WORK INTENSITY STATUS Tvc Exposure to air pollution	No Poland Low Not working Low Low High High No O
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COUNTRY  ABILITY TO MAKE ENDS MEET  BRANCH  AT RISK OF POVERTY_C  BRANCH  COUNTRY  HOUSEHOLD TYPE  Size of dwelling  Housing deprivation rate (H1C)  DEPRIVATION_C  HOUSEHOLD TYPE  BRANCH  ROOMS  AGE  AGE  Crime rate  DEPRIVATION_C  Low  High  DEPRIVATION_C  Low  High  DEPRIVATION_C  Low  HUSEHOLD TYPE  Strong  Strong  Health STATUS  AGE  Crime rate  High  DEPRIVATION_C  Low  High  DEPRIVATION_C  Country  Sweden  GDP  High  ABILITY TO MAKE ENDS  MEET  BRANCH  BRANCH  ABILITY TO MAKE ENDS  MEET  BRANCH  BRANCH  BRANCH  BRANCH  COUNTRY  BRANCH  BRANCH  BRANCH  Finance  Formance  For		•
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AT RISK OF POVERTY_C BRANCH COUNTRY HOUSEHOLD TYPE Size of dwelling Housing deprivation rate (H1C) DEPRIVATION_C HOUSEHOLD TYPE 2 adults& 1dc BRANCH Real estate activities ROOMS 6 + rooms HEALTH STATUS AGE ALIMONIES Very good AGE 30-34 ALIMONIES Yes Crime rate High DEPRIVATION_C Low EQUIVALIZED DISPOSABLE INCOME BRANCH Health AGE 40-44 COUNTRY Sweden GDP High BRANCH ABILITY TO MAKE ENDS MEET Very_easily BRANCH BRANCH BRANCH Finance FAMILY ALLOWANCES AGE 35-39 COUNTRY COUNTRY COUNTRY Finland Luxembourg Netherlands HOUSEHOLD TYPE 2 adults & 2dc COUNTRY Denmark		
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COUNTRY HOUSEHOLD TYPE Size of dwelling Housing deprivation rate (H1C) DEPRIVATION_C HOUSEHOLD TYPE BRANCH ROOMS AGE Crime rate DEPRIVATION_C Low Very good AGE COUNTRY BRANCH BRANCH BRANCH BRANCH BRALTH STATUS AGE COUNTRY BRANCH FINANCE BRANCH BRANC		
HOUSEHOLD TYPE Size of dwelling Size of dwelling Housing deprivation rate (H1C) DEPRIVATION_C HOUSEHOLD TYPE BRANCH ROOMS 6 + rooms HEALTH STATUS Very good AGE Crime rate DEPRIVATION_C EQUIVALIZED DISPOSABLE INCOME BRANCH Health AGE COUNTRY BRANCH Finance FAMILY ALLOWANCES AGE 35-39 COUNTRY COUNTRY COUNTRY COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc Denmark		
Size of dwelling		-
Housing deprivation rate (H1C)  DEPRIVATION_C  HOUSEHOLD TYPE  BRANCH  ROOMS  G + rooms  HEALTH STATUS  AGE  Crime rate  DEPRIVATION_C  Low  High  DEPRIVATION_C  Low  CQUIVALIZED DISPOSABLE  INCOME  BRANCH  AGE  40-44  COUNTRY  Sweden  GDP  High  ABILITY TO MAKE ENDS  MEET  BRANCH  BRANCH  BRANCH  BRANCH  ABILITY TO MAKE ENDS  MEET  BRANCH  BRANCH  BRANCH  COUNTRY  BRANCH  BRANCH  BRANCH  COUNTRY  BRANCH  COUNTRY  BRANCH  BRANCH  BRANCH  BRANCH  COUNTRY  BRANCH  COUNTRY  BRANCH  BRANCH  BRANCH  BRANCH  BRANCH  Finance  Fount of the work of		
CANON CONTRET   COUNTRY	_	- 120_sqm
HOUSEHOLD TYPE 2 adults 1dc BRANCH Real estate activities ROOMS 6 + rooms HEALTH STATUS Very good AGE 30-34 ALIMONIES Yes Crime rate High DEPRIVATION_C Low EQUIVALIZED DISPOSABLE INCOME 5th quintile BRANCH Health AGE 40-44 COUNTRY Sweden GDP High ABILITY TO MAKE ENDS MEET Very_easily BRANCH Communications BRANCH Finance FAMILY ALLOWANCES Yes AGE 35-39 COUNTRY Netherlands Luxembourg COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		Low
BRANCH Real estate activities  ROOMS 6 + rooms  HEALTH STATUS Very good  AGE 30-34  ALIMONIES Yes  Crime rate High  DEPRIVATION_C Low  EQUIVALIZED DISPOSABLE INCOME  BRANCH Health  AGE 40-44  COUNTRY Sweden  GDP High  BRANCH Communications  BRANCH Communications  BRANCH Finance  FAMILY ALLOWANCES Yes  AGE 35-39  COUNTRY Finland  COUNTRY Luxembourg  COUNTRY Netherlands  HOUSEHOLD TYPE 2adults & 2dc  COUNTRY Denmark	DEPRIVATION_C	Low
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HEALTH STATUS  AGE  30-34  ALIMONIES  Yes  Crime rate  DEPRIVATION_C  EQUIVALIZED DISPOSABLE INCOME  BRANCH  AGE  40-44  COUNTRY  Sweden  High  ABILITY TO MAKE ENDS  MEET  BRANCH  COMMUNICATION  BRANCH  BRANCH  COMMUNICATION  MEET  COUNTRY  BRANCH  FINANCE  BRANCH  FINANCE  FAMILY ALLOWANCES  AGE  35-39  COUNTRY  COU	BRANCH	Real estate activities
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ALIMONIES  Crime rate  Crime rate  DEPRIVATION_C  EQUIVALIZED DISPOSABLE INCOME  BRANCH  AGE  COUNTRY  GDP  ABILITY TO MAKE ENDS  MEET  BRANCH  BRANCH  BRANCH  COMME  ABILITY TO MAKE ENDS  MEET  BRANCH  COMMUNICATIONS  BRANCH  Finance  FAMILY ALLOWANCES  AGE  35-39  COUNTRY  COUNTRY  COUNTRY  COUNTRY  COUNTRY  HUSSEHOLD TYPE  2adults & 2dc  COUNTRY  Denmark	HEALTH STATUS	Very good
Crime rate High DEPRIVATION_C Low EQUIVALIZED DISPOSABLE INCOME Sth quintile BRANCH Health AGE 40-44 COUNTRY Sweden GDP High ABILITY TO MAKE ENDS MEET Very_easily BRANCH Communications BRANCH Finance FAMILY ALLOWANCES Yes AGE 35-39 COUNTRY Finland COUNTRY Luxembourg COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark	AGE	30-34
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EQUIVALIZED DISPOSABLE INCOME BRANCH AGE COUNTRY GDP High  ABILITY TO MAKE ENDS MEET Wery_easily BRANCH BRANCH Finance FAMILY ALLOWANCES AGE 35-39 COUNTRY COUNTRY COUNTRY Luxembourg COUNTRY COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark	Crime rate	High
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AGE 40-44 COUNTRY Sweden GDP High  ABILITY TO MAKE ENDS MEET Very_easily  BRANCH Communications BRANCH Finance FAMILY ALLOWANCES Yes AGE 35-39 COUNTRY Finland COUNTRY Luxembourg COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		-
COUNTRY GDP High  ABILITY TO MAKE ENDS MEET Very_easily  BRANCH BRANCH Finance FAMILY ALLOWANCES AGE 35-39 COUNTRY Finland COUNTRY COUNTRY Luxembourg COUNTRY HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		
GDP High  ABILITY TO MAKE ENDS MEET Very_easily  BRANCH Communications  BRANCH Finance  FAMILY ALLOWANCES Yes  AGE 35-39  COUNTRY Finland  COUNTRY Luxembourg  COUNTRY Netherlands  HOUSEHOLD TYPE 2adults & 2dc  COUNTRY Denmark		
ABILITY TO MAKE ENDS MEET  BRANCH BRANCH Finance FAMILY ALLOWANCES AGE COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY HOUSEHOLD TYPE Luxembourg Luxembourg Luxembourg Country Denmark		
MEET         Very_easily           BRANCH         Communications           BRANCH         Finance           FAMILY ALLOWANCES         Yes           AGE         35-39           COUNTRY         Finland           COUNTRY         Luxembourg           COUNTRY         Netherlands           HOUSEHOLD TYPE         2adults & 2dc           COUNTRY         Denmark		High
BRANCH Finance FAMILY ALLOWANCES Yes AGE 35-39 COUNTRY Finland COUNTRY Luxembourg COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		Very_easily
FAMILY ALLOWANCES AGE 35-39 COUNTRY Finland COUNTRY Luxembourg COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		
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COUNTRY Finland COUNTRY Luxembourg COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		
COUNTRY COUNTRY Netherlands HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark		
COUNTRY HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark	COUNTRY	
HOUSEHOLD TYPE 2adults & 2dc COUNTRY Denmark	COUNTRY	Luxembourg
COUNTRY Denmark	l .	
	HOUSEHOLD TYPE	2adults & 2dc
HOUSEHOLD TYPE 2adults & 3dc		
	HOUSEHOLD TYPE	2adults & 3dc

Tab. 2 - Multiple correspondence analysis: categories in ascending order according to their coordinates on the second factorial axis (F2).

Variable name	Category
COUNTRY	Denmark
COUNTRY	Netherlands
ABILITY TO MAKE ENDS MEET	Very_easily
COUNTRY	Finland
Crimerate	High
GDP	High
COUNTRY	Austria
COUNTRY	Sweden
COUNTRY	United Kingdom
HOUSEHOLD TYPE	2 adults, at least one>65
EQUIVALIZED DISPOSABLE	0116>05
INCOME	5th quintile
ABILITY TO MAKE ENDS MEET	Easily
DEPRIVATION P	Low
HOUSING COST	No burden
COUNTRY	Germany
HOUSEHOLD TYPE	2 adults< 65
Housing deprivation rate (H1C)	Low
AGE	80+
AT RISK OF POVERTY_C	Low
COUNTRY	Belgium
~ ~	Ū
'amily workers .GE	High
	65-79
JNEMPLG	Low
AGE	60-64
EMPLOYMENT STATUS	Retired
HOUSEHOLD TYPE	One person
COUNTRY	Luxembourg
Housing deprivation rate (H2C)	Low
Greenhouse gas emission	Medium
EQUIVALIZED DISPOSABLE	4th quintile
	4th quintile Low
Overcrowding rate COUNTRY	France
GDP	France Medium
ABILITY TO MAKE ENDS MEET	
COUNTRY	Fairly_easily Spain
COUNTRY	•
	Italy
COUNTRY	Malta
COUNTRY	Ireland
COUNTRY	Czech Republic
COUNTRY	Cyprus
COUNTRY	Portugal
BARYCENTER	
COUNTRY	Greece
COUNTRY	Slovenia
ABILITY TO MAKE ENDS MEET	Some_difficulty

Variable name	Category
ABILITY TO MAKE ENDS MEET	Difficulty
COUNTRY	Slovakia
EMPLOYMENT STATUS	Unemployed
AGE	30-34
Crime rate	Low
HOUSEHOLD TYPE	Other_type
Phone	No
HOUSEHOLD TYPE	2 adults & 1dc
DWELLING CHANGE	Eviction
INTER-HOUSEHOLD CASH TRANSFER	Yes
GDP	Low
AGE	40-44
ABILITY TO MAKE ENDS MEET	Great difficulty
Shortage of space in dwelling	Yes
HOUSING COST	No cost
AT RISK OF POVERTY_H	Other at risk
COUNTRY	Estonia
BRANCH	Agriculture
AGE	35-39
FAMILY ALLOWANCES	Yes
AT RISK OF POVERTY_C	High
INCOME BY<16	Yes
ALIMONIES	Yes
AT RISK OF POVERTY_H	Only deprived
HOUSEHOLD TYPE	Single parent & dc
HOUSEHOLD TYPE	2 adults & 2dc
EQUIVALIZED DISPOSABLE	
INCOME	1st quintile
COUNTRY	Hungaria
HOUSEHOLD TYPE	Other& dc
DEPRIVATION_H	Yes
Greenhouse gas emission	Low
COUNTRY	Poland
Overcrowding rate	High
Hot water	No
Overcrowded household	Yes
Family workers	Medium
DEPRIVATION_C	High
HOUSEHOLD TYPE	2 adults & 3dc
COUNTRY	Lithuania
Child care COUNTRY	Medium
	Latvia
COUNTRY	Romania
	Bulgaria
Child care	High

Tab. 3 - Multiple correspondence analysis: categories in ascending order according to their coordinates on the third factorial axis (F3).

Variable name	Catagory
COUNTRY	Category
COUNTRY	Spain Italy
EDUCATION LEVEL	Low
Exposure to air pollution	DOW
by ozone	High
COUNTRY	Greece
COUNTRY	Portugal
Greenhouse gas emission	High
Crime rate	Medium
UNEMPLG	High
POVERTY_C	High
AT RISK OF POVERTY_C	Medium
DWELLING CHANGE	Absence of contract
Crime_C	Medium
COUNTRY	France
Exposure to air pollution by particulate matter	High
Size of dwelling	90- 120_sqm
Size of dwelling	70- 90_sqm
Enviroment of the dwelling (H4C)	Medium
GDP	Medium
COUNTRY	Belgium
Environment of the dwelling (H3C)	High
UNEMPLT	High
Dwellling type	Flats < 10
COUNTRY	Cyprus
EDUCATION	Low
Housing deprivation rate (H2C)	Medium
DEPRIVATION_P	Medium
EQUIVALIZED DISPOSA-	
BLE INCOME	3rd quintile
Size of dwelling	>120_sqm
Housing deprivation rate (H1C)	High
HOUSEHOLD TYPE	Other_without_dc
HOUSING COST	Heavy_burden
BRANCH	Hotels and restaurants
Environment of the dwelling	Medium
ROOMS	5 rooms
BRANCH	Other services
HOUSEHOLD TYPE	2 adults & 2dc
AT RISK OF POVERTY_H	Only poverty
ROOMS	4 rooms
Exposure to air pollution by particulate matter	Medium
COUNTRY	Malta
EQUIVALIZED DISPOSA- BLE INCOME	4th quintile
	T
EMPLOYMENT STATUS	Inactive

Variable name	Category
ABILITY TO MAKE ENDS	C 1:6614
MEET	Some_difficulty
AGE	35-39
ABILITY TO MAKE ENDS MEET	Difficulty
ABILITY TO MAKE ENDS MEET	Great difficulty
COUNTRY	Estonia
BARYC	ENTER
ABILITY TO MAKE ENDS MEET	Fairly_easily
COUNTRY	Germany
COUNTRY	Slovakia
HOUSEHOLD TYPE	One person
COUNTRY	Austria
HOUSEHOLD TYPE	2 adults, at least one >65
ABILITY TO MAKE ENDS MEET	Easily
COUNTRY	Czech Republic
COUNTRY	Slovenia
COUNTRY	Ireland
COUNTRY	Luxembourg
COUNTRY	Lithuania
COUNTRY	Hungaria
EQUIVALIZED DISPOSA- BLE INCOME	1st quintile
INCOME BY <16	Yes
Housing deprivation rate (H2C)	Low
AGE	<= 24
HOUSING COST	No cost
Greenhouse gas emis-	
sion	Low
COUNTRY	Romania
GDP	High
Environment of the dwelling (H3C)	Low
ROOMS	1 room
ABILITY TO MAKE ENDS MEET	Very_easily
AT RISK OF POVERTY_P	Low
COUNTRY	Netherlands
COUNTRY	United Kingdom
COUNTRY	Bulgaria
Exposure to air pollution by ozone	Low
Enviroment of the dwelling (H4C)	Low
COUNTRY	Poland
Exposure to air pollution by particular matter	Low
COUNTRY	Latvia
Housing deprivation rate (H1C)	Low
COUNTRY	Sweden
COUNTRY	Denmark
COUNTRY	Finland
COUNTRI	riiiallu

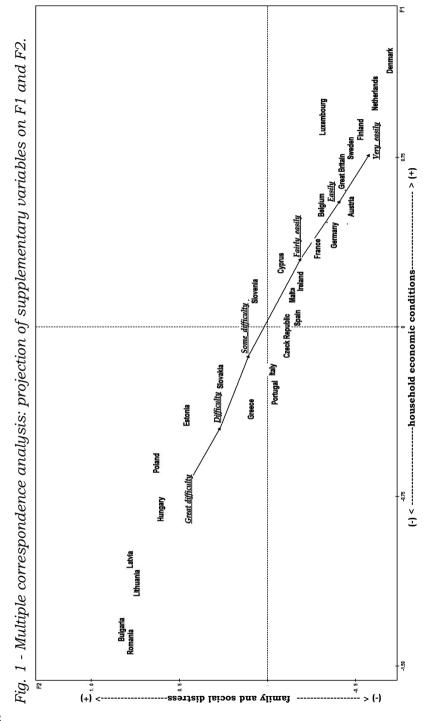
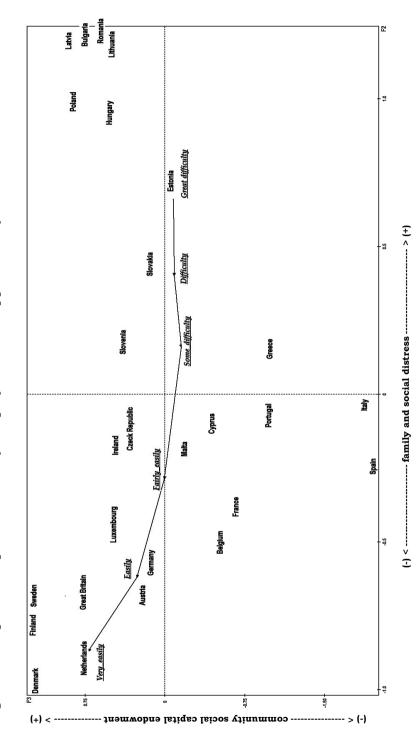


Fig. 2 -Multiple correspondence analysis: projection of supplementary variables on F1 and F3. Sweden Finland Great Britain Very easily - Easily Austria (±) < ---France Cyprus -----household economic conditions-----Czeck Republic Slovakla Portugal 草 Greece Difficulty Poland ·········· > (·) Hungary Latvia Lithuania 0.75 commu-nity social capital endow-ment -1.50

Fig. 3 - Multiple correspondence analysis: projection of supplementary variables on F2 and F3.



helps to keep alive both real and virtual relationships<sup>7</sup>, absence of social life (i.e. participation in leisure activities and get-together with friends) and low environmental quality<sup>8</sup>. The results are consistent with those obtained in previous empirical studies. In fact, one of the most common results found in the literature is the strong association between household poverty and income (Easterlin, 2001) and, as extensively proved by a recent research (Eurostat, 2010), between poverty and poor housing and environmental conditions, concepts which should be used together to analyze different aspects of households' and individuals' economic well-being.

The association observed on the first factorial axis between self perceived poverty and low levels of crime confirms the results of Fraser (2011) which analyses the relationships between crime and poverty status in the 27 European countries. Actually, contrary to expectations and trends observed in the past, poverty is *not* linked to higher crime rates and it may even suggest the opposite: that is, the poorest countries, those with higher wealth inequality and not completely developed in terms of important services, have *less* crime than the wealthier countries. However, if on one side higher crime rates in wealthier countries seem to depend on the major interest of transnational organized crime towards these countries (UNODOC, 2010), on the other side they can also depend on the greater propensity of the population living in developed countries to denounce criminal events to the authorities of jurisdiction.

b) The degree of family and social distress goes through numerous variables such as household disposable income, type and size, housing conditions, entitlement to family allowances, some respondent's socioeconomic characteristics (i.e. age and employment status) and some components of household social capital endowment, such as the support for child care which represent an important resource available to poor people who are often described as deficient along other vectors (Grootaert, van Bastelaer, 2001; Woolcock, 2002). This aspect is well summarized by the

 $<sup>^{7}</sup>$  Possession of colour tv, phone (also mobile), personal computer and internet connection.

<sup>&</sup>lt;sup>8</sup> Low environmental quality stands for high overcrowding and housing deprivation rate (% of total population living in a dwelling with a leaking roof, damp walls, floors or foundation, or rot in window frames of floor) and urban population exposure to air pollution by particulate matter.

second factorial axis (see Table 2 and Figure 1): difficulty in making ends meet prevails in low income (1<sup>st</sup> quintile), large size and overcrowded households with dependent children, severely materially deprived, entitled to family allowances, receiving alimonies and income by household members under 16 years old, and relying on support for child care<sup>9</sup>, thus compensating their socioeconomic vulnerability. The respondent is generally between 30 and 44 years old and unemployed.

c) The *level of community social capital endowment* goes especially through those territorial and environmental characteristics which are significant determinants of social capital formation. This aspect is well summarized by the third factorial axis (see Table 3 and Figures 2 and 3): actually, self-perception of poverty tends to improve in medium size households with very low income (1<sup>st</sup> quintile) if they live in areas characterized by those environmental conditions which can exert a strong positive effect on the quality of family and community relationships. Among these, for example: good housing conditions 10, environment of the dwelling 11, low greenhouse gas emission and urban population exposure to air pollution by particulate matter and by ozone 12.

The above results can help to identify suitable poverty reduction strategies. As a matter of fact, policies aiming at poverty reduction in countries characterized, on average, by poor economic conditions (on the left side of Figure 2) should move along two different directions. In particular, in countries such as, for example, Romania, Bulgaria, Lithuania, Latvia, Hungary, Poland, Estonia, Slovakia and Czech Republic where low levels of economic well-being and high social capital endowment prevail (left upper

<sup>&</sup>lt;sup>9</sup> Support for child care is expressed by the number of hours of child care by grandparents, others household members (outside parents), other relatives, friends or neighbors free of charge (per household member if less than 12 years old).

 $<sup>^{10}</sup>$  Housing conditions: % of total population living in a dwelling with a leaking roof, damp walls, floors or foundation, or rot in window frames of floor; % of total population considering their dwelling as too dark.

 $<sup>^{11}</sup>$  Environment of the dwelling: % of total population suffering from pollution, grime or other environmental problems and % of total population suffering noise from neighbors or from the street.

 $<sup>^{\</sup>rm 12}$  Greenhouse gas emission (in CO2 equivalent); urban population exposure to air pollution by particulate matter (micrograms per cubic meter).

quadrant), traditional welfare programs based on income support mechanism are recommended. In countries such as, for example, Portugal, Greece and Italy characterized by poor household economic well-being but also by low social capital endowment (left lower quadrant), poverty reduction policies can be effective if they reconcile traditional income support programs with measures facilitating the development of desirable forms of social capital, in particular those which strengthen mutual trust and foster model behaviour (i.e. reducing criminality and improving housing and environmental conditions).

Actually, living in a society characterized by economic and social cooperative behaviour, and where trust replaces suspicion and fear, can have a systematic positive effect on households' economic well-being as their socio-economic vulnerability is reduced, as well as the resources they need to deal with risk and avert major losses.

### 4. Conclusions

This paper aims to show to what extent self-perceived poverty in European countries is associated with household socioeconomic characteristics and household/community social capital endowment in order to disclose the primary risk factors of family poverty.

The results of the multiple correspondence analysis showthat subjective poverty is associated at least with three aspects:

- a. the household economic conditions;
- b. the degree of family and social distress;
- c. the level of community social capital endowment.

The analysis proves not only one of the most well-established results found in empirical literature (i.e. the strong link between household poverty status and income), but also a significant association between social capital and self-perception of poverty.

As a consequence, poverty reduction policies should enhance household economic well-being not only through traditional income support measures, but also facilitating the development of desirable forms of social capital which strengthen mutual trust and foster model behaviour (i.e. reducing criminality and improving housing and environmental conditions). In other words, soci-

ety characterized by economic and social cooperative behaviour can improve households' economic well-being.

If the EU-SILC survey and Eurostat statistics database would provide more social capital indicators with a greater territorial detail, associations between social capital and household poverty could be entirely described, thus helping considerably policymakers to promote suitable poverty reduction strategies.

As a matter of fact, in EU countries almost 84 million people live at risk of poverty, facing, depending on the country, a variety of problems from not having enough money to spend on food and clothes to suffering poor housing conditions and even homelessness; from having to cope with limited lifestyle choices that may lead to social exclusion to living in areas where social capital is deteriorating. The European Union has joined forces with its Member States supporting numerous initiatives among which the 2010 European Year For Combating Poverty and Social Exclusion: its objective was to raise public awareness about these issues and renew the political commitment of the EU and its Member States to combat poverty and social exclusion.

From the statistical point of view, further research will be directed to measure the effect of social capital on household subjective-poverty through the specification and the estimation of an appropriate model.

# **APPENDIX**

Tab. A1 - Respondent and household socio-economic characteristics.

Label	Variable name	Categories	
AGE	Age	< 24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-79 80+	
GEN	Gender	Male Female	
MST	Marital status	Never married Married Separated or divorced Widowed	
EDU	Educational qualification (*)	Low Medium High	
ЕМР	Employment status	Working Unemployed Retired Inactive	
LWI	Low work intensity status	No LWI LWI	
BRA	Branch of activity	Agriculture Industry Construction Wholesale retail Transport and storage Hotels and restaurants Information and communication	

<sup>(\*)</sup> *Low*: Never in education, Pre-primary school, Primary school and Lower secondary school; *Medium*: Secondary school and Post-secondary school; *High*: Tertiary education (1st and 2nd stage).

Label	Variable name	Categories
		Financial and insurance activities Real estate; renting and business activities Public administration; defense; social security Education Health and social work Other Not working
RISK	At risk of poverty/social exclusion	Not at risk At risk of poverty LWI Severely materially deprived Other
нтн	General health	Very good Good Fair Bad Very bad
ROO	House/flat: number of rooms	1 room 2 rooms 3 rooms 4 rooms 5 rooms 6+ rooms
TST	Tenure status	Owner Paying rent at prevailing/market rate Paying rent at a reduced rate Accommodation is provided free
DTY	Dwelling type	Detached house Semi-detached or terraced house Apartment or flat < 10 Apartment or flat with 10 or more
RCA	Reason for changing dwelling	No change Forced to leave: end of the contract Forced to leave: absence of contract Forced to leave: eviction/distraint Forced to leave: financial diff For a family-related reason For an employment-related reason For some other reason

Label	Variable name	Categories	
ТҮРЕ	Household type	One person household 2 adults both adults < 65 years 2 adults at least one adult ≥65 year Other without dependent children Single parent and ≥ 1 dep chi 2 adults one dependent child 2 adults two dependent children 2 adults and ≥ 3 dep children Other households + dep children Other type	
HDI	Equivalized disposable income	1st quintile 2nd quintile 3rd quintile 4th quintile 5th quintile	
POI	Poverty indicator	Not at risk of poverty At risk of poverty	
SMD	Severely materially deprived Household	Not severely deprived Severely deprived	
НСО	Financial burden total housing cost	No housing cost A heavy burden Somewhat a burden Not burden at all	
DEB	Debts for hire purchases or loans	No Debts Debts	
wis	Work intensity status	WI = 0 0 < WI < 0.5 0.5 ≤ WI < 1 WI = 1	
FAL	Family/children related allowances	No Yes	
AAL	Other allowances	No Yes	
HAL	Housing allowances	No Yes	
ICT	Regular inter-household cash received	No Yes	
ALI	Alimonies received	No Yes	
I16	Income received by people < 16	No Yes	

Source: EU-SILC 2009.

Tab. A2.1 - Social capital indicators: social behaviour.

Label	Variable name	Categories	Туре	Source
CRH	In your local area are there any problems of crime, violence or vandalism?	Yes No	Household (respondent)	EU-SILC
CRC	% of total population suffering from problems of crime, violence or vandalism	High Medium Low	Community	Eurostat
CRR	Crime recorded by the police: number of crimes per 100 inhabitants	High Medium Low	Community	Eurostat
LTH	Litter lying around the neighbourhood	Very frequently Frequently Sometimes Rarely/never	Household (respondent)	EU-SILC
DMH	Damaged public amenities in the neighbourhood	Very frequently Frequently Sometimes Rarely/never	Household (respondent)	EU-SILC

Source: Eurostat and EU-SILC 2009.

Tab. A2.2 - Social capital indicators: social relationships.

Label	Variable name	Categories	Туре	Source
	Social 1	relationships		
РНО	Do you have a phone? (including mobile)	No Yes	Household (respondent)	EU-SILC
TVC	Do you have a colour tv?	No Yes	Household (respondent)	EU-SILC
PC	Do you have a computer?	No Yes	Household (respondent)	EU-SILC
СНІ	Number of hours of child care by grandparents, others household members (outside parents), other relatives, friends or neighbors (free of charge) (per household member if less than 12 years old).	None Low Medium High	Household (respondent)	EU-SILC

Label	Variable name	Categories	Туре	Source
FAW	Are there "family workers" in your family business? (number)	None 1 FAW 2 or more FAW	Household (respondent)	EU-SILC
INTC	Do you have an internet connection?	No Yes	Household (respondent)	EU-SILC
MEA	Get-together with friends/ relatives for a drink/a meal at least once a month	No Yes	Household (respondent)	EU-SILC
LES	Regularly participate in a leisure activity such as sport, cinema, concert	No Yes	Household (respondent)	EU-SILC
L16	Do your children under 16 participate in a regular leisure activity (swimming. playing an instrument. youth organizations, etc.)?	No Yes	Household (respondent)	EU-SILC
C16	Do your children under 16 have celebrations on special occasions (birthdays, name days, religious events)?	No Yes	Household (respondent)	EU-SILC
I16	Do your children under 16 invite friends round to play and eat from time to time?	No Yes	Household (respondent)	EU-SILC
E16	Do your children under 16 participate in school trips and school events that cost money?	No Yes	Household (respondent)	EU-SILC
016	Do your children under 16 have an outdoor space in the neighbourhood where they can play safely?	No Yes	Household (respondent)	EU-SILC

Source: Eurostat and EU-SILC 2009.

 $Tab.\ A2.3-Social\ capital\ indicators:\ territorial\ characteristics.$ 

Label	Variable name	Categories	Туре	Source
ОСН	Overcrowded household	Yes No	Household (respondent)	EU-SILC
осс	Overcrowding rate	High Medium Low	Community	Eurostat

Label	Variable name	Categories	Type	Source
н1н	Do you have any of the following problems related to the place where you live? (Leaking roof, Dump walls/floors/foundation, rot in windows frames or floor)	Yes No	Household (respondent)	EU-SILC
н1С	Housing deprivation rate: % of total population living in a dwelling with a leaking roof, damp walls, floors or foundation, or rot in window frames of floor.	High Medium Low	Community	Eurostat
н2н	Is your dwelling too dark, meaning is there not enough day-light coming through the windows?	Yes No	Household (respondent)	EU-SILC
н2С	Housing deprivation rate: % of total population considering their dwelling too dark	High Medium Low	Community	Eurostat
нзн	Do you have too much noise in your dwelling from neighbors or from outside (traffic, business, factory)?	Yes No	Household (respondent)	EU-SILC
нзс	Environment of the dwelling: % of total population suffering noise from neighbors or from the street	High Medium Low	Community	Eurostat
Н4Н	Pollution. grime or other environmental problems in the local area such as smoke, dust, unpleasant smells or polluted water	Yes No	Household (respondent)	EU-SILC
н4С	Environment of the dwelling: % of total population suffering from pollution, grime or other environmental problems	High Medium Low	Community	Eurostat
нот	Place to live with hot running water	No Yes	Household (respondent)	EU-SILC
SHO	Shortage of space in the dwelling	Yes No	Household (respondent)	EU-SILC

Label	Variable name	Categories	Туре	Source
SQMTS	Size of dwelling in sq metres	<=50 50- 70 70- 90 90- 120 >120	Household (respondent)	EU-SILC
AP1	Greenhouse gas emission (in CO <sub>2</sub> equivalent)	High Medium Low	Community	Eurostat
AP2	Urban population exposure to air pollution by ozone (micrograms per cubic meter)	High Medium Low	Community	Eurostat
AP3	Urban population exposure to air pollution by particulate matter (mgrams cubic mt)	High Medium Low	Community	Eurostat

Source: Eurostat and EU-SILC 2009.

Tab. A3 - Economic and well-being indicators.

Label	Variablename	Categories
GDP	GDP per capita in PPS [Index: EU27=100]	Low Medium High
UNEMPLT	Total unemployment rate - annual average %	Low Medium High
UNEMPLG	Less than 25 years old unemployment rate - annual average $\%$	Low Medium High
POV	At risk of poverty: % of total population	Low Medium High
EXS	People at risk of poverty or social exclusion: % of total population	Low Medium High
SEVM	Severely materially deprived people: % of total population	Low Medium High
UPE	Persons aged 25 or over with upper secondary or tertiary education attainment (%)	Low Medium High

Source: Eurostat 2009.

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Résumé: Le travail étudie dans quelle mesure la pauvreté subjective en Europe est associée à des caractéristiques socio-économiques individuelles et familiales spécifiques et au capital social, afin d'identifier les facteurs de risque de pauvreté. L'identification de ces associations permettrait aux policy makers de préciser les objectifs économiques et sociaux qui devraient faire l'objet d'une plus grande attention des politiques destinées à la réduction de la pauvreté. A cette fin, a été réalisée une analyse des correspondances multiples à partir de données issues de l'enquête EU-SILC 2009 et de la base de données Eurostat. Les résultats montrent une association importante entre la pauvreté subjective, les caractéristiques socio-économiques des familles et, ce qui est particulièrement intéressant, la dotation de capital social. Leurs implications sur les politiques publiques sont ensuite analysées.

Riassunto: Il presente lavoro si propone di evidenziare se ed in che misura in Europa la povertà soggettiva sia associata a specifiche caratteristiche socioeconomiche individuali/familiari e alla dotazione di capitale sociale, al fine di individuare i fattori di rischio dello stato di povertà delle famiglie. Tale evidenza consentirebbe ai policy makers di definire quegli obiettivi economici e sociali che dovrebbero ricevere maggiore attenzione da politiche volte ad eliminare la povertà. Al tal fine è stata condotta un' analisi delle corrispondenze multiple sui dati tratti dall'indagine EU-SILC 2009 e dal database Eurostat. I risultati mostrano una rilevante associazione tra povertà soggettiva, caratteristiche socio-economiche delle famiglie e dotazione di capitale sociale. Vengono, quindi, discusse le più importanti implicazioni per le politiche pubbliche.