

Working Paper Series

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Working Paper 2005-04

November 2005

www.ecineq.org

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Abstract

We analyze behaviour and motivations of a sample of about one thousand consumers purchasing "fair trade (FT) goods", i. e. food and artisan goods which include socially responsible (SR) characteristics and a price premium for primary product producers with respect to equivalent non SR products. By estimating a simultaneous two-equation treatment regression model we find that FT products have less than unit income elasticity and their demand is negatively (positively) correlated with geographical distance from the nearest shop (age and awareness of SR criteria). Awareness of SR criteria depends, in turn, on a series of factors (consumption habits, membership of volunteer associations) which, indirectly (via increased awareness), significantly affect consumption. We also measure consumers' willingness to pay in excess for the SR features of FT products with a contingent evaluation approach and find that it is positively correlated with awareness of SR criteria.

KEYWORDS: fair trade, social preferences, willingness to pay

JEL Classification: D109, F14, H23

¹The paper is CEIS working paper n. 209. MIUR 2002 and 2003 Globalisation project contribution is gratefully acknowledged. A special thank goes to Eleonora d'Agosto, Paola de Meo and Livia Venturini for their precious research assistance. We are gratefully indebted to all those who collaborated to the survey. Among them the CLCs of Grumo Nevano, S.Arpino, Roma, Parma and fair trade world shops of Rome, Albano Laziale, Ostia, Ladispoli, Bari, Eboli, Pavia, Ancona, Milano, Napoli, L'Aquila, Avezzano, Sora, Lodi, Bologna, Trento and Parma. The paper and the research on FT has greatly benefited from comments and suggestions received

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during presentations at the 2005 Annual meeting of the EARIE and at the 2005 Meeting of the European Center for Studies on Income Inequality (ECINEQ) and at seminars in different seminars held at SOAS in London and at the Universities of Catania, Copenhagen, Macerata, Milano Bicocca, Newcastle, Pisa, Trento and Verona. We thank F. Adriani, M. Bagella, L. Bruni, R. Cellini, L. Debenedictis, L. Lambertini, F. Perali, G. Piga, P. Scaramozzino, R. Sugden, C. Whilborg, L. Zarri and S. Zamagni and all participants to these seminars for comments and suggestions received. The usual disclaimer applies.

1. Introduction

The need to explain so many puzzles which cannot be fully accounted for by the standard self-interested preference approach has led economists to focus their attention on fields such as those of intrinsic motivation, non pecuniary incentives, inequity aversion and social preferences.

Some recent empirical achievements in these fields are leading to an integration of contract and principal-agent theories into a broader framework which considers not only pecuniary, but also non pecuniary incentives to agent's behaviour (Fehr-Falk, 2002). Without this broadened perspective on the scope of human action it is hard to explain why pecuniary incentives may not work and how, in some cases, they may even be crowded out by stronger non pecuniary motivations (Gneezy-Rustichini, 2000).

An important strand of this new literature analyses how choices of many workers (and consumers), which are apparently inconsistent with predictions from standard microeconomic theory, may be explained by social preferences.² Another parallel path of this literature develops models of reciprocity which try to capture elements of inequity aversion (Fehr-Schmidt, 1999; Fehr and Schmidt, 2001; Sobel, 2002). The standard inequity aversion literature hinges on the problems of externalities among coworkers and argues that workers productivity is affected not just by personal, but also by relative wages (Agell and Lundborg, 1999; Bewley, 1999, Campbell and Kamlani, 1999).

The scope of our paper is to enlarge the research focus in the field of social preferences and inequity aversion by showing with an empirical analysis how global market integration has led to a compression of distances and to an enlargement of the potential reference group considered when social preferences are formulated.

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² According to a standard definition in the literature "A person exhibits social preferences if he does not only care about the material resources allocated to her but also cares about the material resources allocated to other relevant reference agents" (Fehr-Falk, 2002).

In our case the focus is shifted from workers to consumers living in global markets. We argue that the progressive integration and reduction of virtual distances leads a share of "concerned" consumers to care about distant people, integrating them in the set of their relevant reference group. In a parallel way, we may conceive our research as extending the concept of inequity aversion to the behaviour of consumers, by arguing that also their constrained optimisation, exactly as that of workers, is affected by inequity aversion. The difference in our case is, again, that the reference group is no longer represented by working colleagues, but by poor producers living in far countries, which globalisation makes virtually closer.

This extended framework of inequity aversion and social preference theories helps us to explain why these "socially responsible" consumers are willing to pay more, *coeteris paribus*, for products incorporating social goals and, specifically, for supporting inclusion of those who have not in distant countries of the world.

The experiment of our paper consists in building a survey and administering it to a sample of around one thousand "socially responsible" consumers buying "fair trade" products. FT products are food and artisan goods which include socially responsible (hereafter, also SR) characteristics and a price premium for primary product producers with respect to equivalent non SR products (see section 2 for a detailed definition of FT). These products therefore represent an interesting benchmark on which consumers' SR preferences may be tested.

In the survey we are not only able to identify the determinants of expenditure in fair trade products and the relationship of the latter with traditional (income, distance) and intrinsic motivation related (knowledge and approval of socially responsible features of the products) factors. We are also able to measure directly the determinants of the willingness to pay in excess for the socially responsible features of such products, thereby extracting social preferences of the interviewed consumers.

The paper is divided into six sections (including introduction and conclusions). In the second section we illustrate the characteristics of fair trade products, focusing specifically on their social responsibility features. In the third section we illustrate the survey design and present descriptive

findings. In the fourth section we illustrate descriptive findings. In the fifth section we comment our econometric results. The sixth section concludes.

2. A definition of fair trade

Recent surveys seem to show that the reduction of distance induced by technological progress has increased the importance of global public goods and the sensitiveness of the public opinion toward social responsibility in general and, more specifically, toward the preservation of the environment and the fight to poverty in less developed countries.³ This increased awareness has generated a series of "grassroot" welfare initiatives which focus on socially responsible (or socially concerned) saving and consumption.

One of them is built up by zero profit importers, distributors and retailers (called *fair traders*)⁴ of food and artisan products which have been partially or wholly manufactured by poor rural

³ In a recent survey the "2003 Corporate social responsibility monitor" finds that the amount of consumers looking at social responsibility in their choices jumped from 36 percent in 1999 to 62 percent in 2001 in Europe. In addition, more than one in five consumers reported having either rewarded or punished companies based on their perceived social performance and more than a quarter of share-owning Americans took into account ethical considerations when buying and selling stocks. The Social Investment Forum reports that in the US in 1999, there was more than \$2 trillion worth of assets invested in portfolios that used screens linked to the environment and social responsibility.

The definition of fair trade considered in this paper is quite different from the traditional meaning of "Fair trade" used in the field of industrial organization. From the 1930s onward (although there are antecedents going back to 1900), in both the US and the UK, the term refers to schemes that industry trade associations used to regulate competition among members, usually by requiring that prices be posted in advance and that no transactions take place except at posted prices. During the Great Depression in the U.S., such schemes were part of the National Recovery Act. In the more recent literature fair trade indicates "arguments that relate to certain conditions under which trade, and the production of traded goods, should minimally take place" (Maseland and Vaal, 2002). In this framework fair trade generally refers to the absence of duties, controls and dumping practices in international trade (for a similar use of the term see also Mendoza and Bahadur, 2002; Bhagwati, 1996; Stiglitz, 2002; Suranovic, 2002). The fair trade products we refer to in this paper are, on the contrary, food and artisan products which obtain the fair trade label since their production process follow some criteria for social and environmental sustainability, established by the movement of fair trade importers and retailers (Moore, 2004).

communities in developing countries. To be labeled as such, fair trade products need to respect a series of social and environmental criteria.

The criteria are the following:

i) definition of a "fair price", which is higher than the market price paid on primary products by local intermediaries or transnationals in the food industry. This criterion does not necessarily represent a violation of market principles for two reasons. First, buyers of primary products are usually highly concentrated and exploit their market power to conclude transactions at prices which are far below the value of primary producers' marginal product.⁵ Second, fair trade products (exactly as "green" products) can be more properly considered as a kind of contingent good, that is, a bundle of traditional characteristics and SR features, and therefore cannot be compared with standard non SR products. From this point of view, the introduction of fair trade (hereafter also FT) products may be seen as reducing market incompleteness and increasing welfare of consumers with

⁵ Support for the existence of monopsonistic labour markets for unskilled workers, not just in LDCs but also in developed countries, is provided by several authors (Manning, 2003; Card and Krueger, 2000). Manning (2003) argues that it is not necessary to think of the mining or mill town in the early days of the Industrial Revolution to conceive the existence of monopsony or of thin labour markets. Labour markets may be thin not just in presence of a single employer, but also when employers are few and collude, or in the presence of geographical distance and labour differentiation. The first two cases may well apply to producers in LDCs countries. Evidence of employers' excess market power in LDCs countries is provided by several empirical papers. Terrell and El Hamidi (2001) find that minimum wages reduce inequality and increase employment on a large sample of workers in Costa Rica. Several papers find similar results on minimum wage policies in Brazil (Camargo, 1984; Gonzaga et al., 1999; Carneiro, 2002; Lemos, 2004). We argue that evidence bases on published empirical papers is underestimated because of a selection bias. The more the labour market is informal and characterized by exploitation, the more difficult it is that it can be object of a systematic empirical analysis. To quote evidence from reliable reports not object of systematic empirical research, the US state department signals that in 2003 there were about 109 000 children working in dangerous conditions in Ivory Coast, the source of 4 percent of the world's cocoa. Starbucks financed an independent study of working conditions in the Guatemala coffee sector in 2002. The study was undertaken by the Commission for the Verification of Codes of Conduct (COVERCO) and released in February 2000, reporting extensive violation of labor law in the areas of wages, health care, and hours. COVERCO conducted another report on living and working conditions on Guatemalan coffee plantations in March 2003. However, it should be emphasized that our labour market story is just an example of a more widespread phenomenon. We could think of alternative examples in which self-employed farmers sell their crops to a single exporter. For instance, Conley and Udry 2003, in describing the functioning of the pineapple production in Ghana, report that farmers plant and grow their crops, while an exporter is usually in charge of harvesting and shipping the fruits to Europe.

social preferences (or inequity aversion) which did not have the opportunity of buying such products before; ii) opportunity of prefinancing production, therefore breaking the monopoly of local moneylenders and reducing the impact of credit rationing which severely affects small uncollateralized producers; iii) price stabilization mechanisms which insulate risk averse primary product producers from the high volatility of commodity prices; iv) intervention to improve working conditions and to remove factors leading to child labour, not through a ban on products incorporating child labour, but through a monetary integration of their low household income; v) preferential inclusion in the fair trade distribution chain of projects reinvesting part of the surplus arising from the fair price in the provision of local public goods (health, education, job training); vi) attention to the environmental sustainability of productive processes; vii) full information on how the price is determined in the different transactions occurring along the value chain; viii) creation of long run relationships between importers and producers and provision of "business angel" and export services to the latter (i.e. information about consumers tastes in foreign markets, non tariff trade barriers, import regulations, etc.) which are essential for the penetration of fair trade products in foreign markets.

A final "hidden effect" of FT is its capacity of triggering imitation in social responsibility from traditional producers. Becchetti and Solferino (2003 and 2004) demonstrate that the entry of a FT producer triggers SR imitation of the profit maximising incumbent in under reasonable parametric conditions on consumers' social preferences, in static and dynamic horizontal differentiation duopolies in which competition is played on prices and social responsibility.

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⁶ For a theoretical analysis of the welfare effects of fair trade see Becchetti and Solferino (2004). Our empirical analysis will show in the next sections that this welfare effect is significant. Revealed preferences of interviewed consumers show that they buy SR products and that they are willing to pay in excess of market price for the SR features of FT products (see section 5).

⁷ The child labour literature clearly evidences that the most effective strategy to reduce child labour is represented by raising poor household income. Several empirical studies demonstrate that when household income passes a given threshold, it triggers the decision to send children to school (luxury axiom) (Basu, 1999; Basu and Van, 1998).

The European Fairtrade Labeling Organization, FLO, certified in 2003 315 organizations, representing almost 500 first level producer structures and around 1,500,000 families of farmers and workers from 40 countries (Moore 2004). FT products were sold by 2,700 dedicated outlets (called *world shops*) and by 43,000 supermarkets across Europe (7,000 in the US).

FT products have achieved significant market shares in specific segments such as the ground coffee market in the EU (2%), the banana market in Switzerland (15%) the roast and ground coffee market in the UK (7.2%) and the tea market in Germany (2.5%) (Moore, 2004, Cafedirect, 2003)

Consistently with predictions on FT indirect effects in the literature, the diffusion of forms of socially responsible consumption, such as fair trade, is accompanied by a wide range of imitation strategies enacted by traditional producers. Many more companies⁸ are starting advertising not only price and quality, but also their socially responsible actions.⁹ Social labeling and corporate responsibility is gradually becoming an important competitive feature in real and financial markets.

One of the examples of partial socially responsible imitation is given by the supermarkets decision of selling FT products. This example is particularly relevant as it helped FT importers to

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⁸ On 2003 one of the world's biggest players in the coffee market, the US consumer good company Procter & Gamble, announced it would begin offering Fair Trade certified coffee through one of its specialty brands. Following Procter & Gamble's decision to start selling a Fair Trade coffee, also Kraft Foods, another coffee giant, committed itself to purchasing sustainably grown coffee. Furthermore, Kraft will buy 5m pounds of Rainforest Alliance certified coffee in the first year, according to an agreement between Kraft Foods and the Rainforest Alliance (EFTA Advocacy Newsletter n° 9). In Italy, the Fair Trade certification brand TransFair Italy certifies specific fair trade products sold by consumers good distribution companies and multinationals such as Coop, Carrefour, Sma, Pam, Gs, Conad

⁽http://www.macfrut.com/ita/conv_2003/relazioni/162benvenuti_f2.pdf). On October the 7th, 2000 the BBC announces that "Nestle has launched a fair trade instant coffee as it looks to tap into growing demand among consumers." The BBC comments the news saying that "Ethical shopping is an increasing trend in the UK, as consumers pay more to ensure poor farmers get a better deal." and reports the comment of Fiona Kendrick, Nestle's UK head of beverages, arguing that "Specifically in terms of coffee, fair trade is 3% of the instant market and has been growing at good double-digit growth and continues to grow."

⁹ Corporate perception by consumers (90 percent of respondents) is by far the most selected item (against ethical values of managers, tax incentives and relationship with stakeholders) when a sample of interviewed socially responsible companies is asked about reasons for their socially responsible behaviour in the "2003 Corporate social responsibility monitor" (downloadable at http://www.bsdglobal.com/issues/sr.asp). This finding is consistent with our hypothesis that ethical imitation is today a relevant competitive feature in product markets.

reduce distributional bottlenecks determined by the limited diffusion of dedicated FT outlets. The choice of distributing the products also through the large scale distribution has been criticized by some consumers arguing that social responsibility of *world shops* is superior (they sell only FT products and actively promote information about them) to that of supermarkets (they include FT products within their traditional product range and do not actively promote knowledge of FT criteria).

Given the social relevance of this phenomenon the goal of our survey is that of studying for the first time characteristics of FT consumption, including a special focus on the competition between FT "pioneers" (*world shops*) and "partial imitators" (large scale distribution) and its impact on consumers habits and on the willingness to pay for FT products.

3. The survey

The survey has been designed with the purpose of studying habits and characteristics of FT consumers. It has therefore an in built selection bias which excludes from the sample all consumers not purchasing FT products. If we also consider that the willingness to fill the questionnaire is expected to be positively related with individuals' praise for FT initiatives, a second selection bias may add to the first one.

For these reasons our paper does not aim to evaluate the aggregate relevance of FT purchases.¹⁰ Its first goal is to show the existence of consumers with social preferences and inequity aversion which

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¹⁰ Information on this issue can be found on a recent survey on a balanced sample of the Italian population (Demos & Pi / Coop, 2004), showing that 40 percent of the population declares to have purchased at least once in a year FT products and 20 percent to have more frequent purchasing habits of these products. In a parallel UK survey, Bird and Hughes (1997) classify consumers as ethical (23 percent), semi-ethical (56 percent) and selfish (17 percent). 18 percent of the surveyed consumers declares to be willing to pay a premium for SR products. In Belgium De Pelsmacker, Driesen and Rayp (2003) show, on a representative sample, that 10 percent of consumers are willing to pay the positive price difference between a fair trade and a traditional coffee. In February 2004, a research undertaken by the market research company TNS Emnid in Germany on a representative sample of the population finds that 2.9% of those interviewed buy Fair Trade products regularly, 19% rarely, and 6% almost never. 35% of respondents said they support the

purchase fair trade products and are willing to pay in excess for these products with respect to equivalent ones without socially responsible characteristics. Its second goal is to investigate the determinants of expenditure in fair trade products, and, in particular, the impact on it of income, geographical distance and consumers' awareness of the criteria described in the previous section.

The questionnaire on which our survey is based¹¹ includes questions about: i) purchasing habits of FT consumers; ii) awareness of the eight FT criteria; iii) qualities and/or disservices in the FT product chain; iv) consumers' willingness to pay in excess for the SR features of FT products.

The survey contains several controls which allow us to rule out inconsistent answers. A first filter is for consumers declaring that they buy products for their informational transparency at question 7 and judge information on products absolutely insufficient at question 9. The second filter is for consumers which provide inconsistent responses while answering to questions 6 and 20, in which they are asked whether they purchase their products in both *world shops* and supermarkets. The third filter is about the knowledge of the fair price criteria asked in both questions 15 and 27.1. The fourth filter is obtained by combining information from question 18 (knowledge that products are also sold in the large scale distribution) and question 20 where consumers are asked to judge the production range in the large scale distribution. The use of these filters leads to the exclusion from the sample of a total of 42 consumers giving inconsistent answers.

4. Descriptive findings

4.1 Expenditure habits

Descriptive findings, summarized in Table 1, show that the average net family income¹² in the sample is 2,371 euros, while equivalised income¹³ is 1,304 euros. The average number of schooling

idea, but do not buy (<u>www.fairtrade.net/sites/aboutflo/aboutflo</u>). On the crucial role of ethical consumers in Fair Trade see also Hayes (2004).

¹¹ The questionnaire is attached in the Appendix C.

¹² Average net family income is calculated as monthly after tax (wage) family income minus or plus all other (nonwage) monthly income flows (i.e. mortgages, housing rents, etc.)

years is 14 (corresponding to the first year of University in the Italian education system). Average distance from the nearest FT outlet is around 17 minutes. Around 80 percent of the interviewed consumers declare to buy in *world shops* only. About 20 percent of them are students. The second largest group is that of retired workers (26 percent), followed by housewives (12 percent) and professionals (8 percent). 32 percent of them are members of non confessional volunteer associations, 20 percent of confessional volunteer associations, 12 percent of development NGOs. ¹⁴ 60 percent believe in God. Females are slightly less than two thirds of the sample.

A first important descriptive finding is the average expenditure for Fair Trade products, 75 cents per day, which amounts approximately to 20 euros per month. Those who spend more are members of non confessional associations (97 cents) and retired workers (92 cents) (Table 2). As expected, distance matters and those at more than 40 minute distance from the FT retail shop spend slightly more than half of those within the 10-20 minute distance from it (.45 against .85 euros daily). In Table 2 we also observe that average expenditure in fair trade products remains flat when income changes. The only exception seems to be that of members of confessional associations, whose expenditure turns from .60 to .90 euros, when moving from the lowest to the highest income bracket.

The average expenditure share on family income for fair trade products in the sample is around 1 per cent (Table 3). The share goes up to 1.8 percent for members of non confessional associations and drops from 1.3 to 0.6 respectively from consumers at no more than 16, to those at more than 40 minute distance. This figure seems very low but we must consider that *world shops* are not so

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¹³ We compute equivalised income by using the OECD approximation in which any additional adult is weighted .5 and any children .3 [$AE = 1 + 0.5 (N_{adults} - 1) + 0.3 N_{children}$]. We conventionally assume that the second component of the family is an adult and those from the third on are children. ¹⁴ For (non) confessional associations we mean stable organisations of individuals with their own legal statute, in which there is explicit reference to the (non) religious motivations which determined their birth and animate their life. These associations may or may not be involved into domestic and international activities working in the field of social justice and sustainable development. For development NGOs we mean organisations which, differently from the above mentioned associations, have an international activity in the field of social justice and sustainable development as their specific goal and reason of existence.

widespread and that only a limited range of food and artisan products may be purchased (i.e. tea, coffee, sugar, pasta, etc.). 15

These first descriptive findings seem to show that distance from the nearest outlet has effects on consumption, as it is expected to be for food products which must be purchased with some frequency in time. They also show that, at the moment, fair trade products are far from being luxury goods, as it is generally believed by the traditional press due to their nonnegative price differential with respect to equivalent non SR products. Based on our descriptive evidence, the purchasing habit of FT products seems to be still conceived as a symbolic action implemented with a lump sum consumption almost insensitive to income.

4.2 Awareness of SR criteria

A crucial competitive factor for socially responsible *vis à vis* traditional products is consumers' knowledge and awareness of the SR features of the products.

As already specified in the previous section we may identify at least eight socially responsible criteria in FT products (see section 2). The first criterion is that of fair price. Consumer awareness of this criterion is the highest (75 percent) and jumps to 82-83 percent for volunteers actively involved in either confessional and non confessional associations (Table 4).

When we move to a second important criterion (prefinancing of production) we observe a dramatic drop in awareness (36 percent), which goes up to 57 percent for volunteers actively involved in non confessional associations and down to 31 percent for manual workers. Knowledge of the price stabilization criteria is even lower (30 percent), down to 24 percent for teachers and retired workers and up to 42 percent for members of non confessional associations. 53 percent among volunteers

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¹⁵ In 2004 the average monthly expenditure of the Italian consumer for the range of food products which can be bought in *world shops* was estimated to be around 32.8 euros. Hence, by imputing an expenditure share of 1/3 to artisan products on the total of FT expenditure (20 euros on average), we

working in non confessional associations (from now on also non confessional volunteers), but only 35 percent among students, know that through FT products it is possible to increase investment in public goods in local producers communities. Knowledge of the commitment to improve producers working conditions (and to fight child labour through integration of household income) is much more widespread, up to 80 percent among non confessional volunteers and back to 52 percent among manual workers. Commitment to environmental sustainability is perceived by around 52 percent of the sample (63 percent among volunteers and 38 percent among manual workers), informational transparency by 40 percent of the sample (57 percent of non confessional volunteers and only 46 percent of students), while the FT's capacity of building of long run relationship with provision of export services only by 27 percent of the overall sample (23 percent among students and 41 percent among non confessional volunteers).

4.3 Evaluation of fair trade rules and policies

Independence and heterogeneity of retail outlets seem to be a value for consumers, since only 35 percent of them would be happy if products were to be sold in franchising. This value drops to 27 percent for volunteers in non religious associations, while it goes up to 50 percent for those active in political parties. The share of consumers which would welcome a common ethical label in Europe is much higher than 50 percent and goes up to 88 percent for teachers. These results may be interpreted by arguing that SR consumers desire uniformity and easy recognition in label standards since it may contribute to solve the problem of informational asymmetry, but prefer variety when it comes to retailers characteristics. 16 Descriptive findings on this specific point are obviously subject to a selection bias since all those interviewed are world shop customers.

can roughly evaluate that FT consumers in our sample shifted, on average, around 45% of the relevant consumption share from non FT to FT products.

¹⁶ Extended descriptive evidence on these points is omitted for reasons of space and available from the authors upon request.

4.4 The relationship between dedicated fair trade outlets ("world shops") and supermarkets

The importance of the role of distance when selling food products introduces one of the dilemmas of the fair trade movement. *World shops* have very thin margins (usually reinvested in education projects) and their diffusion depends on the strength of seller's preferences for solidarity more than on profit maximizing behaviour. Producers' "solidarity spirits" must be much stronger than those of FT consumers since starting up and operating a business requires much more effort and motivation than just purchasing FT products. This explains why FT retail outlets are not so widespread. This distributional bottleneck is a serious problem when selling food products which are generally purchased (at least some of them) with high frequency and within a limited distance from consumers residence. Fair trade importers have therefore started to use large scale distribution (together with *world shops*) to sell their products, even though many consumers and producers find it contradictory with their principles (or, at least, would require large scale distribution to adopt the same SR criteria of the FT value chain).

Our survey investigates consumers¹⁷ perception of the problem finding that 67 percent of them knows that products are sold also in the large scale distribution, but only 17 percent buys them also there. The share of those favourable to buy from the large scale distribution would become higher (around 50 percent), would the latter adopt the same criteria of the fair trade movement (Tables are omitted for reasons of space and available upon request).

4.5 Evaluation of the quality of products and services of the FT chain

Consumers identify the reduced range of FT products as the main problem when interviewed about the quality of products and services in the FT chain (31 percent of the overall sample, up to 38

percent for entrepreneurs and down to 22 percent for retired workers) (Table 5). A second concern is about location of FT outlets (28 percent of the sample). As expected this figure goes up to 45 percent for consumers at more than 40 minute distance from the nearest FT shop and up to 40 percent for those purchasing FT products also in the large scale distribution. A smaller share of consumers (higher in case of professionals and students) complains about the absence of online sales (13 percent). 12 percent of consumers points out the limited opening time of FT shops (12 percent). This problem is more important for executives (27 percent). Complaints about lack of courtesy and scarce competence of the *world shop* personnel come only from, respectively, 5 and 9 percent of the sample.

5. Econometric findings

All results presented so far in the descriptive analysis are obviously subject to composition effects (the close relationship between two variables may be affected by a third hidden factor strongly associated to one of them). To evaluate the statistical and economic significance of the net effect of each factor on a given dependent variable we provide econometric estimates in the sections which follow.

5.1 The treatment regression model for the evaluation of direct and indirect determinants of FT consumption

When in a first econometric exercise we look with two separate estimates at the determinants of the demand for FT products and of awareness of FT criteria we find that the dependent variable of the second regression (awareness of FT criteria) has a strong and significant impact on the dependent variable of the first regression (demand for FT products).¹⁸ We therefore realise that we need to

¹⁸ In order to control for the robustness of this findings to endogeneity and reverse causality we also performed an instrumental variable estimate where knowledge of the FT criteria is instrumented by the length of purchasing habits in the world shop, since the latter variable is definitely determining

¹⁷ Remember that all our consumers are interviewed outside *world shop* outlets.

estimate jointly the two regression model if we want to disentangle the direct effect of a regressor (e.g. membership to an association of non confessional volunteers) on the demand for FT products, from its indirect effect via increased awareness of FT criteria.

The best candidate for addressing these linkages is a treatment effect model estimated with a full maximum likelihood. The model considers the effect of an endogenously chosen binary treatment (in our case the knowledge of at least 5 FT criteria)¹⁹ on another endogenous continuous variable (the demand of FT products), where the two endogenous variables are conditional on two sets of independent variables.

More formally, we write the system as

(1.1)

$$\begin{split} \log(Y_{i}) &= \alpha_{0} + \alpha_{1} Male + \alpha_{2} \log(Distance) + \alpha_{3} \log(Income_{i}) + \alpha_{4} \log(Age_{i}) + \alpha_{5} \log(School_{i}) + \alpha_{6} \log(FidelWS_{i}) + \alpha_{7} \log(FidelLS_{i}) + \alpha_{8} Awareness + \sum_{i=1}^{n-1} \gamma_{j} Macroarea_{j} + \sum_{k=1}^{m} \delta_{k} X_{i} + \varepsilon_{i} \end{split}$$

$$Awareness_{i} = \beta_{0} + \beta_{1}Male + \beta_{2}\log(Income_{i}) + \beta_{3}\log(Age_{i}) + \beta_{4}\log(School_{i}) + \beta_{5}\log(FidelWS_{i}) + (1.2)$$

$$\beta_{6}\log(FidelLS_{i}) + \sum_{i=1}^{n-1}\theta_{j}Macroarea_{j} + \sum_{k=1}^{m}\xi_{k}X_{i} + v_{i}$$

where in (1.1) Yi is the daily expenditure in FT products of the ith consumer, Distance is the distance from the nearest FT world shop, Income is consumer family income, Age is consumer age, School is the number of schooling years, FidelWS and FidelLS are, respectively, the duration of purchasing habits in the FT world shop and in the large scale distribution. To these regressors we add three geographical dummies measuring respectively consumer location in the North-East, North-West or South area and a set of additional controls (the variables X_i) for professional status, faith and membership.

the former, while not being at risk of being caused by current FT expenditure. Results are omitted for reasons of space and available from the authors upon request.

¹⁹ We arbitrarily define this threshold but we also make a sensitivity analysis around it looking at the impact of the knowledge of 4 or 6 criteria. Results are substantially unchanged and are available from the authors upon request.

In (1.1) Awareness is a dummy which takes the value of one if consumers know at least five of the eight FT criteria and zero otherwise. Awareness is also the binary dependent variable of the second equation (1.2) of the system, where regressors are all those of the first equation (with the obvious exception of the Awareness and Distance variables). In the two equation system (v) and (E) are bivariate normal random variables with zero mean and covariance matrix $\begin{bmatrix} \sigma & \rho \\ \rho & 1 \end{bmatrix}$. The likelihood function for the joint estimation of (1.1) and (1.2) is provided by Maddala (1983) and Green (2000). Results of the simultaneous two equation treatment regression model confirm the validity of our specification choice (Table 6). The null hypothesis of the independence of the two equations (ρ =0) is rejected by the LR test confirming the need of estimating them jointly. Awareness of at least five of the eight FT criteria has the strongest impact on the demand for FT products among regressors of the first equation raising three times the amount of expenditure, net of the impact of additional controls. By inspecting the effects of other regressors we find that membership of non confessional and confessional volunteers association affects demand for FT products not directly, but only (and quite significantly) through awareness of FT criteria. Coefficient magnitudes indicate that the first variable (non confessional association membership) raises by 65 percent the likelihood of being aware of at least 5 criteria which, in turn, raises FT expenditure by a factor of three in the first equation. Hence, its indirect impact on the last variable is expected to be of the order of 195 percent. A similar result is found for the impact of duration of purchasing habits in a world shop. This variable affects the demand for FT products not directly, but via awareness of FT criteria. These results confirm that dedicated FT outlets effectively perform their role of increasing sales through enhanced awareness of SR features of FT products. Consider though that purchasing habits in the large scale distribution significantly affect awareness as well, but with a coefficient which is lower than that of habits in world shops.

We also find that income has a direct positive effect on the demand for FT products, while it affects negatively the treatment variable (awareness of FT criteria). Hence, FT products are more sensitive

to income than what appears to be when we do not consider that richer consumers are less aware of FT criteria. Similar opposite effects are found for age, which has a positive direct effect on expenditure, but a negative indirect effect through reduced awareness of FT criteria. With regard to the age effect, it is impossible to understand, in our cross-sectional estimate, whether the age-awareness relationship hides a cohort effect or not. We strongly suspect that this is the case, if we consider that knowledge of fair trade is more widespread among the young and that fair trade itself is a quite recent phenomenon. This may lead us to believe that fair trade purchases should rise in the future, assuming that the current generation will buy more once becoming older and wealthier. An important policy suggestion which this joint estimate may reveal is that the growth in awareness of FT criteria by older and wealthier consumers may have a strong potential impact on FT product demand.

5.2 The determinants of complaints about overall quality of FT chain

To identify the determinants of complaints on the overall quality of the FT chain we estimate the following probit model

$$Y_{i} = \alpha_{0} + \alpha_{1} Male + \alpha_{2} \log(Distance) + \alpha_{3} \log(Income_{i}) + \alpha_{4} \log(Age_{i}) + \alpha_{5} \log(School_{i}) + \alpha_{6} \log(FidelWS_{i}) + \alpha_{7} \log(FidelLS_{i}) + \sum_{k=1}^{3} \beta_{k} Macroarea_{k} + \sum_{i=1}^{n-1} \gamma_{k} X_{i} + \varepsilon_{i}$$

$$(2)$$

where *Yi* is a dichotomic variable which takes the value of one if consumers respond affirmatively about perception of the disservice i (i=limited range of food, limited range of clothing, limited range of giftware, absence of on-line sales, scarce professional experience of *world shop* personnel, unsatisfactory location of the FT outlet, reduced opening time of *world shops*, scarce courtesy of *world shop* personnel) and regressors are those described in section 5.1.

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²⁰ Consider that we measure net income but we do not have any proxy of wealth which could be correlated with age, thereby explaining part of the significant age effect in our estimates.

A first relevant finding is that distance from the nearest FT outlet positively affects the probability of complaining about distance (Table 7). This is an important control of the quality and reliability of the distance variable. Family income is significantly and positively related to complaints on distance and on the limited range of FT products. The limited range of products is also a concern for volunteers in non confessional associations. A quite relevant point is that purchasing habits of FT products in the large scale distribution have significant impact on the probability of complaining about the limited range of FT products. Consumers location in the South also has significant and positive effects on the likelihood that consumers complain about the limited range of food and artisan products and negative impact on the probability of complaining about scarce competence of world shop personnel.

5.3 The determinants of the willingness to pay for SR features of FT products

In our questionnaire consumers are asked to indicate their willingness to pay in excess for FT products with respect to equivalent products without SR characteristics. In Appendix A we show that, given a reasonable specification of consumer preferences, this question exactly measures the relative weight of the social preference argument in consumer's utility function.

The demand is repeated imagining different distances between the two competing products and considering the alternative of FT products sold in the large scale distribution and not in *world shops* (questions 29-34 in the questionnaire reported in the Appendix C).

As it is well known the literature on contingent valuation highlights some potential biases arising from the investigation of the willingness to pay for a given good based on a direct demand on it from survey data Mitchel-Carson (1989) Diamond-Hausman (1994). A first bias is represented by strategic behaviour when the responder knows that his response may affect the decision on the quantity of a public good and service provided. A second bias arises when the hypothetic scenario prospected by the interviewed is too unrealistic. The bias may be reduced if the respondent is

familiar with such scenario. A third bias is the so called "embedding effect". Many empirical results show that quantitative responses tend to be strikingly similar in spite of the different situations presented within the same scenario. The rationale is that the individual have a clear idea of their general WTP for a given good, but not on its exact quantitative amount and on its variation according to changes in the side conditions prospected in the hypothetical demands. The fourth is an upward bias on WTP findings generated by the desire of the respondent to please the interviewer. Given the structure of our survey, we believe that answers on the willingness to pay for the SR features of FT products are likely to be affected mainly by the last two biases. Such biases are more likely to distort the quantitative data on the willingness to pay and the total number of positive responses while they should not affect the signs of the determinants of the willingness to pay in econometric estimates For this reason we focus on econometric findings and not on descriptive results on the average WTP declared by sample respondents (a detailed discussion of this last finding is nonetheless discussed in Appendix A).

We therefore estimate the determinants of consumer willingness to pay in excess for the socially responsible features of the product following a treatment regression approach similar to that shown in section 5.1

(3.1)

$$Log(Wpaysoc_{ijl}) = \alpha_0 + \alpha_1 \log(Virtdist_{ij}) + \alpha_2 DLS + \alpha_3 \log(Income_i) + \alpha_4 \log(Age_i) + \alpha_5 \log(School_i) + \alpha_6 \log(FidelWS_i) + \alpha_7 \log(FidelLS_i) + \alpha_8 Awareness_i + \sum_{r=1}^{n-1} \gamma_r Macroarea_r + \sum_{k=1}^{m} \delta_k X_i + \varepsilon_{ijl}$$

$$(3.2)$$

 $\begin{aligned} &Awareness_{i} = \beta_{0} + \beta_{1}Male + \beta_{2}\log(Virstdist_{ij}) + \beta_{3}\log(Income_{i}) + \beta_{4}\log(Age_{i}) + \beta_{5}\log(School_{i}) + \beta_{6}\log(FidelWS_{i}) + \beta_{7}\log(FidelLS_{i}) + \sum_{i=1}^{n-1}\theta_{j}Macroarea_{j} + \sum_{k=1}^{m}\xi_{k}X_{i} + v_{i} \end{aligned}$

where (in 3.1) $Wpaysoc_{ijl}$ is a continuous variable measuring the declared willingness to pay in excess for the SR features of the FT product of consumer i at the j_{th} (0, 15, 30 minute) virtual distance from the l^{th} type of (FT dedicated outlet or supermarket) retailer. $Virtdist_{ij}$ is the j_{th} virtual distance at which the consumer i is expected to buy the product, DLS is a dummy taking the value

of one if the product is "virtually" purchased in the large scale distribution and zero otherwise. Other regressors are defined as in section 5.1.

Consider that the specific structure of our model is such that any individual i (i=1,...,n) gives j*l different answers with (j=1,...,3) and (l=1,2) for a total number of n*6 observations. Estimating the model with a standard least square procedure would not keep into account that observations are correlated within individuals, thereby leading to an underestimation of the variance (i.e. the residual variance of the 6 responses given by the same individual is expected to be lower because observations are correlated). Therefore we correct with the clustering approach our standard errors incorporating the assumption that observations are dependent within individuals.

Another difference with the previous model is that virtual distance and virtual purchasing place (*world shops* or supermarkets) do not obviously enter in the second equation.

As in the case of the demand for FT products (Table 6), the independence between the two equations is not rejected, even though at a lower level of significance (Table 8). Furthermore, we find that purchasing the product from the large scale distribution reduces by 47 percent the declared willingness to pay in excess, while doubling the virtual distance reduces it by 24 percent. Awareness of FT criteria is, again, a crucial variable. Knowledge of at least 5 of the 8 fair trade criteria²¹ raises by 77 percent the willingness to pay in excess for FT products. No other variables are significant in the first equation.

In the second equation awareness of fair trade criteria is affected by several regressors. The probability of knowing at least 5 of the 8 FT criteria is 47 percent lower when age doubles, 67 percent (25 percent) higher for volunteers in non confessional (confessional) associations, 18

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omitted for reasons of space and available from the authors upon request.

²¹ We perform a robustness check to see how our findings are sensitive to a change in the number of criteria used to define our dichotomous variable. Results are substantially unchanged in sign and significance (and slightly in magnitude) if we consider four or six criteria. These findings are

percent higher when duration of consumption habits in *world shops* doubles. Duration of consumption in supermarkets has no impact on the willingness to pay.²²

6. Conclusions

The compression of distance generated by global integration of real and financial markets is inevitably going to enlarge the reference group considered by individuals' having "social preferences". If previous research showed that workers and consumers decisions were not taken in isolation, but crucially considering status and choices of peers and neighbours, our paper shows that in the era of global market integration the reference group is inevitably going to be much broader. We in fact show that consumers in industrialised countries may be affected in their choices by the sense of solidarity and interdependence with distant people.

More specifically, we illustrate that this subgroup of "concerned consumers" is ready to pay more for the SR features of a special kind of products (FT products), aimed at supporting development and inclusion in global markets of commodity producers in distant countries.

Results from our estimates highlight that awareness of socially responsible criteria is a fundamental competitive factor of FT products. If this is the case, their demand needs to be properly estimated with a simultaneous model in which consumption is affected directly by various controls (including income and geographical distance from the nearest outlet) and, indirectly, by all those factors significantly affecting awareness of socially responsible criteria.

Our findings also show that the behaviour of *world shops* (investing much more in education of consumer awareness than in traditional marketing policies) is rational, given the specific features of their product.

request.

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We perform individual equation estimates on the determinants of the willingness to pay in excess where each FT criteria enters individually in the equation. With this approach we find that the two criteria affecting more the dependent variable are the local public good investment and long run relationship criteria. Results are omitted for reasons of space and available from the authors upon

Finally, obtained results suggest that the future development of the FT chain depends on two crucial issues: i) the capacity of the FT movement of extending its outreach when investing in promotion and knowledge of FT products; ii) the solution of the problem of distributional bottlenecks of FT products.

Table 1 Descriptive features of the sample

	North-East	North-West	Center	South	Italy
Aga	30	40	34	33	34
Age	30	40	34	33	34
Schooling years	14	14	14	14	14
Net family income	2913	2295	2424	2157	2371
Equivalised income*	1393	1225	1406	1186	1304
Distance from the nearest fair trade <i>world shop</i> (in minutes)	14.28	12.04	16.57	18.94	16.67
World shop only purchasers (percent)	64.25	78.54	80.12	89.12	80.14
Large scale distribution (percent)	35.75	21.46	19.88	10.88	19.86
	Profes	sional status (¡	percent)		
Executive	1.79	3.41	1.50	3.68	2.38
Entrepreneur	1.79	0.00	0.86	1.67	1.40
Unemployed	0.00	1.14	4.51	5.02	4.21
Professional	7.14	7.95	6.01	7.69	7.88
Housewife	10.71	18.18	10.52	13.04	12.31
Student	53.57	13.64	28.76	37.12	31.75
Teacher	1.79	3.41	4.29	0.33	2.81
Manual worker	0.00	3.41	2.15	4.35	3.13
Clerk	1.79	10.23	4.72	6.69	5.94
Retired worker	16.07	30.68	31.76	16.39	25.92
		mbership (per			1
Non confessional volunteer	25.00	31.82	26.70	27.76	21.05
associations * *	25.00	31.82	36.70	27.76	31.95
Confessional volunteer associations* *	28.57	23.86	18.67	22.41	20.40
Political party	5.36	3.41	5.15	5.35	4.89
Development NGOs* *	3.57	4.55	13.09	15.05	11.97
		Sex (percent)			
Male	23.21	36.36	38.20	33.44	35.59
Female	76.79	63.64	61.80	66.56	64.41
_	Relig	ious beliefs (pe	ercent)		
D 1'		_		64.00	160.25
Believers * See definition at footnote 13	62.50	69.32	56.65	64.88	60.35

^{*} See definition at footnote 13.
** See definition at footnote 14.

Table 2. Daily expenditure in fair trade products (in euros)

Student	the income distribution (population third with lowest income)	the income distribution fessional stat	the income distribution (population third with highest income)	All sample 0.465
Teacher	1.068			
Manual worker	0.887			
Clerk	0.867			
Retired worker	1.334			
Ketiled Worker			0.890	0.923
Non		Membership	0.022	0.071
Non confessional associations*	0.931	0.971	0.932	0.971
Confessional associations*	0.607	0.706	0.901	0.706
Political party	0.811	0.605	0.661	0.605
Development NGOs*	0.469	0.798	1.008	0.798
Distance from	n the nearest		orld shop" (d	edicated FT
	T	outlets)	T	
<10 minutes	0.652			
10-20 minutes	0.815			
20-40 minutes	0.662			0.659
>40 minutes	0.399	0.447	0.645	0.447
		Sex		
Male	0.790	0.709	0.669	0.709
Female	0.621	0.737	0.774	0.737
	Re	ligious belief	S	
Believers	0.636	0.740	0.791	0.740
	Consumers pu	irchasing FT	products	
in World	0.708	0.760	0.751	0.760
<i>shops</i> only				
also in	0.509	0.559	0.696	0.559
* See definition at	C t 1.4			

^{*} See definition at footnote 14.

Table 3. Expenditure share in fair trade products (monthly expenditure in FT products/total monthly expenditure)

	1st third of	2nd third of	3rd third of	All sample
			the income	1
	distribution	distribution	distribution	
All	0.008	0.012	0.010	0.0104
	Pro	fessional stat	us	
Student	0.010	0.008	0.003	0.008
Teacher	0.018	0.014	0.010	0.014
Manual worker	0.023	0.028	0.000	0.028
Clerk	0.022	0.013	0.006	0.013
Retired worker	0.025	0.015	0.007	0.015
	ľ	Membership	1	
Non	0.020	0.018	0.008	0.018
confessional				
associations*				
Confessional	0.012	0.011	0.010	0.011
associations*	0.022	0.010	0.000	0.010
Political parties				
Development NGOs*	0.010	0.013	0.011	0.013
Distance fron	the nearest t	lair trade "w	orld shop'' (d	edicated FT
		outlets)	F (
<10 minutes	0.015	0.013	0.007	0.013
10-20 minutes	0.016	0.014	0.007	0.014
20-40 minutes	0.016	0.014	0.008	0.014
>40 minutes	0.009	0.006	0.006	0.006
		Sex		
Male	0.017	0.012	0.006	0.012
Female	0.014	0.013	0.007	0.013
	Re	ligious belief	s	
Believers	0.014	0.012	0.007	0.012
	Consumers p	urchasing FT	products	
in world	0.016	0.014	0.007	0.014
shops only				
also in	0.012	0.009	0.006	0.009
supermarkets				

^{*} See definition at footnote 14.

Table 4 Awareness of fair trade criteria (percent of sample respondents who are aware)

1 able 4	Awar	eness of fair ti	rade criteria (p		sampie r	esponaents wr	io are aware)	
				PROVISION				
				OF LOCAL				LONG RUN
	FAIR	Prefinancing	PRICE	PUBLIC		.		RELATION
	PRICE		STABILISATION	GOODS	LABOUR	ENVIRONMENT	TRANSPARENCY	SHIP
All sample	74.9	359	297	391	669	516	409	270
			P	rofessional s	tatus			
Executive	77.3	22.7	13.6	36.4	54.5	36.4	45.1	18.2
Entrepreneur	76.9	38.5	30.8	46.2	69.2	69.2	46.2	30.8
Unemployed	69.2	33.3	23.1	35.9	64.1	43.6	28.2	12.8
Housewife	83.3	44.7	36.8	51.8	74.6	56.1	47.4	36.8
Professional	76.7	39.7	39.7	50.7	79.5	61.6	46.6	31.5
Student	73.1	33.3	25.5	35.0	61.2	47.6	46.3	23.5
Teacher	65.4	46.2	23.1	46.2	76.9	42.3	30.8	34.6
Manual worker	65.5	31.0	27.6	24.1	51.7	37.9	31.0	24.1
Clerk	80.0	32.9	32.5	39.2	70.4	56.7	41.3	28.3
Retired worker	69.1	45.5	23.6	34.5	70.9	56.4	30.9	2
				Affiliation	1			
Non								
confessional associations*	83.4	56.7	41.7	52.8	79.5	63.5	57.3	41.4
Confessional associations*	82.7	41.3	35.2	43.9	71.9	57.7	46.9	32.1
Political parties	68.1	40.4	31.9	34.0	61.7	51.1	36.1	23.4
Development NGOs*	73.9	43.5	42.6	50.4	71.3	61.7	46.9	33.9
				Sex				
Male	76.0	36.8	32.7	38.6	65.8	52.0	41.5	30.7
Female	74.3	35.4	28.3	39.4	67.5	51.4	40.5	24.9
				Religious bel	liefs			
Believers	76.0	36.9	28.8	40.3	67.2	49.5	39.1	26.0
			Consumers	purchasing				
in World	75.9	37.6	29.5	39.8				
shops only	70.7	20.7	22.2	25.0	66.9	52.6	42.2	27.4
also in supermarkets	70.7	28.7	32.3	35.9	67.1	46.7	34.7	24.5

Fair price: premium on the market price paid to primary product producers by local intermediaries or food transnationals. Prefinancing: anticipated financing aimed to reduce the impact of credit rationing on small uncollateralized producers. Price stabilization: price stabilization mechanisms which insulate risk averse primary product producers from the high volatility of commodity prices; Labour: intervention to improve working conditions and to remove factors leading to child labour through monetary integration of poor household income; Pgoods: preferential inclusion in the fair trade chain of projects reinvesting part of the surplus arising from the fair price in the provision of local public goods (health, education, job training). Environment: attention to the environmental sustainability of production processes; Longrun: creation of long run relationships between importers and producers and provision through them of export services. For further details and discussion of these criteria see section 3.* See definition at footnote 14.

Table 5. Evaluation of the main limits in the quality of product and services of the FT chain

		MOONILINI	D A DDD OF	DADDI AG		
	NOPROD	NOONLIN E	BADPROF ES	BADPLAC E	BADTIME	BADPERS
All sample	.314	.125	.053	.280	.122	.088
•		Profes	sional Stat	us		
Executive	0.318	0.136	0.091	0.227	0.273	0.136
Entrepreneur	0.385	0.154	0	0.154	0.154	0.077
Unemployed	0.231	0.128	0.077	0.385	0.154	0.154
Housewife	0.342	0.079	0.053	0.272	0.140	0.105
Professional	0.274	0.192	0.055	0.274	0.123	0.041
Student	0.296	0.166	0.065	0.310	0.112	0.078
Teacher	0.379	0.034	0.069	0.172	0	0.138
Manual worker	0.346	0.1	0.029	0.283	0.133	0.096
Clerk	0.308	0.077	0.077	0.231	0.038	0.115
Retired worker	0.218	0.072	0.036	0.218	0.127	0.018
		Me	mbership			
Non			Ī			
confessional	0.368	0.143	0.078	0.264	0.130	0.091
associations*						
Confessional	0.337	0.117	0.061	0.230	0.130	0.071
associations*	0.557	0.117	0.001	0.230	0.130	0.071
Political	0.319	0.064	0.085	0.340	0.106	0.106
parties*	0.517	0.001	0.005	0.510	0.100	0.100
Development	0.348	0.148	0.070	0.252	0.130	0.096
NGOs						0.070
	Cons	umers pur	chasing FT	products.)• 	T
in World shops only	0.323	0.128	0.058	0.252	0.118	0.084
also in supermarkets	0.281	0.114	0.030	0.407	0.132	0.114
		Relig	ious beliefs	S		
Believer	0.340	0.134	0.060	0.274	0.129	0.093
			Sex			L
Male	0.292	0.137	0.064	0.275	0.114	0.105
Female	0.326	0.118	0.047	0.283	0.126	0.079
	l	ance from			1	1
<10 minutes	0.359	0.111	0.066	0.159	0.123	0.099
10-20 minutes	0.303	0.152	0.050	0.259	0.146	0.082
20-40 minutes	0.313	0.125	0.042	0.448	0.115	0.078
>40 minutes	0.217	0.058	0.043	0.449	0.058	0.130
Lagand: Monnon		ET product r	J.5.5	1	0.000	0.100

Legend: NOPROD: limits in the FT product range; NOONLINE: absence of on-line sales; BADPROFES: scarce professional experience of the *world shop* personnel; BADPLACE: unsatisfactory location of the FT outlet; BADTIME: reduced opening time of FT *world shops*; BADPERS: scarce courtesy of the *world shop* personnel.

^{*} See definition at footnote 15.

Table 6 The determinants of fair trade expenditures in a two equation treatment regression model

			SECOND EQUATION:			
	FIRST EQUAT	ION:	DEP. VARIABLE = A	WARENESS		
	DEP. VARIABLE =	LOG OF	OF AT LEAST FIV	E FT SR		
	DAILY EXPENDITU	RE IN FT	CRITERIA	Λ		
	PRODUCTS	S	(KNOWMOSTCR	ITERIA		
	Coeff.	T-stat	Coeff.	T-stat		
Log(Distance)	-0.167	-3.24				
Log(Income)	0.212	2.89	0.0001	-3.3		
MALE	-0.114	-1.1	0.134	1.26		
Log(Age)	0.681	3.3	-0.361	-1.71		
Log(School)	-0.297	-1.08	0.384	1.34		
NORTH-EAST	0.086	0.37	-0.027	-0.11		
NORTH-WEST	0.071	0.4	0.288	1.57		
SOUTH	0.102	0.76	0.169	1.3		
FAITH	-0.079	-0.73	-0.166	-1.51		
STUDENT	-0.300	-1.77	-0.157	-0.92		
THEACHER	0.225	0.75	-0.344	-1.06		
MANUAL WORKER	0.197	0.63	-0.310	-0.97		
Clerk	-0.103	-0.83	-0.202	-1.62		
NCVOL	0.035	0.3	0.654	5.94		
CVOL	-0.105	-0.82	0.293	2.27		
NGO	-0.055	-0.36	0.333	2.25		
Log(fidelWS)	-0.024	-0.29	0.358	4.52		
WSONLY	0.368	2.76	-0.080	-0.6		
Log(fidelLS)	0.147	1.4	0.223	2.19		
NOCOMPLAINTS	0.130	1.34				
KNOWMOSTCRITERIA	2.190	11.26				
CONSTANT	-4.583	-3.82	-0.661	-0.57		
LR- TEST		21	.01			
OF INDEPENDENCE OF			00)			
THE TWO EQUATION S		`				
N. of obs.		70	00			
Log-L		1/11	2.48			
ON OVERALL			2.48 00)			
SIGNIFICANCE		(0.	00)			

We estimate a treatment regression model whose specification is presented in section 5.1

<u>Variable legend:</u> DISTANCE: declared distance from the nearest FT *world shop* in minutes; INCOME: average net family income calculated as monthly after tax (wage) family income minus or plus all other (nonwage) income flows (i.e. mortgages, housing rents, etc.; SCHOOL: average schooling years; NORTH-EAST: dummy for consumer location in the North-East of the country (Trentino-Alto Adige, Veneto, Friuli-Venezia Giulia, Emilia Romagna); NORTH-WEST: dummy for consumer location in the North-West of the country (Piemonte, Valle D'Aosta, Lombardia, Liguria); SOUTH: dummy for consumer location in the South of the country (Calabria, Campania, Puglia, Sardegna, Sicilia); NCVOL: volunteer members of non confessional associations, CVOL: volunteeer members of confessional associations; NGO: membership of a development NGO (for definition see footnote 14); FIDELWS: duration of purchasing habits in "world shops" (dedicated FT outlets) (number of years); WSONLY: dummy for those purchasing from world shops only; FIDELLS: duration of purchasing habits in the large scale distribution (number of years), KNOWMOSTCRITERIA: knowledge of at least 5 out of 8 FT criteria; NOCOMPLAINTS: absence of complaints on fair trade chain; MOSTCOMPLAINTS: agreement on at least 5 out of 8 reasons for complaining about the FT product chain (see Table 5 legend).

Table 7. Limitation of fair trade products as perceived by consumers (probit estimates)

Table 7. Limit	tation of fair	trade prod						
	MOREFOOD	MOREDR	MOREO	BADTIME	BADPERS	BADPLACE	Noprod	NOONLINE
		ESS	BJECT					
MALE	-0.043	(054)	-0.027	-0.015	0.037	0.005	-0.059	0.006
	(-1.55)	-1.42	(-0.73)	(-0.58)	(1.78)	(0.16)	(-1.68)	(0.25)
Log(Distance)	0.0001	-0.0008	0.001	-0.001	0.0006	0.007	-0.002	-0.0008
LOG(DISTANCE)	(0.19)	(-0.57)	(0.87)	(-1.31)	(0.86)	(6.02)	(-1.52)	(-0.86)
Log(Income)	-00006	-0.00004		-0.0001	-0.00002	0.00005	-0.00003	0.00001
LOG(INCOME)	(-0.47)	(-1.52)	(1.93)	(-0.22)	(-1.29)	(2.54)	(-1.32)	(0.71)
Log(Age)	0.040	123	0.184	-0.015	-0.046	-0.076	0.024	-0.060
LOG(AGE)	(0.72)	(-1.65)	(2.48)	(-0.31)	(-1.17)	(-1.12)	(0.34)	(-1.25)
Log(School)	0.034	0.070	-0.111	0.115	0.0228	0.012	0.030	0.207
LOG(SCHOOL)	(0.46)	(0.70)	(-1.16)	(1.57)	(0.43)	(0.13)	(0.32)	(2.77)
FAITH	0.023	0.008	0.075	-0.00003	0.011	0.030	0.030	0.041
	(0.80)	(0.21)	(1.98)	(-0.00)	(0.52)	(0.86)	(0.82)	(1.68)
STUDENT	0.032	-0.021	0.089	-0.028	-0.041	0.025	0.010	0.068
STUDENT	(0.69)	(-0.35)	(1.46)	(-0.70)	(-1.39)	(0.45)	(0.18)	(1.68)
THEACHER	-0.016	0.187	-0.024	-0.090	0.012	-0.067	0.013	-0.045
THEACHER	(-0.20)	(1.75)	(-0.22)	(-1.34)	(0.21)	(-0.71)	(0.12)	(-0.70)
MANUAL	-0.023	0.133	-0.210	-0.006	0.076	-0.123	0.138	-0.029
WORKER	(-0.26)	(1.17)	(-2.01)	(-0.22)	(1.13)	(-1.30)	(1.24)	(-0.34)
CLERK	0.010	0.067	0.015	-0.006	0.003	-0.002	0.011	-0.023
CLERK	(0.30)	(1.49)	(0.35)	(-0.22)	(0.13)	(-0.05)	(0.25)	(-0.80)
NCVOL	0.023	-0.006	0.049	0.002	0.008	-0.037	0.068	0.031
NCVOL	(0.78)	(-0.15)	(1.26)	(0.08)	(0.40)	(-1.05)	(1.83)	(1.23)
CVOL	0.012	0.052	0.033	0.051	-0.032	-0.082	0.008	-0.014
CVOL	(0.34)	(1.11)	(0.75)	(1.60)	(-1.35)	(-2.01)	(0.19)	(-0.47)
NGO	0.077	0.062	0.024	0.001	0.004	-0.065	0.047	0.008
NGO	(1.84)	(1.13)	(0.46)	(0.03)	(0.13)	(-1.36)	(0.92)	(0.22)
Log(fidelLS)	0.114	0.122	0.091	-0.009	-0.002	0.052	-0.002	-0.046
LOG(FIDELLS)	(4.51)	(3.13)	(2.45)	(-0.34)	(-0.13)	(1.53)	(-0.06)	(-1.71)
Log(fidelWS)	. 0.016	0.049	-0.060	0.013	-0.013	-0.056	0.047	0.002
LOG(FIDEL W S)	(0.74)	(1.70)	(-2.14)	(0.68)	(-0.90)	(-2.16)	(1.75)	(0.12)
North-East	-0.099	-0.114	-0.078	0.029	0.015	0128	-0.018	-0.080
NORTH-EAST	(-1.70)	(-1.41)	(-1.00)	(0.53)	(0.35)	(-1.89)	(-0.24)	(-1.85)
North-West	-0.004	-0.020	-0.104	0.038	0.042	-0.155	-0.100	-0.045
NORTH-WEST	(-0.08)	(-0.31)	(-1.69)	(0.87)	(1.19)	(-2.67)	(-1.72)	(-1.12)
COLUMN	0.071	0.147	0.018	0.035	-0.064	-0.083	-0.015	-0.010
SOUTH	(1.89)	(2.96)	(0.37)	(1.01)	(-2.50)	(-1.97)	(-0.32)	(-0.34)
Num. Obs.	793	793	793	769	793	793	793	793
$\left \frac{1}{1} D \left(\frac{2}{3} \right) \right $	(10)	(10)	(10)	(17)	(10)	(10)	(10)	(10)
$LR(\chi^2)$	(18) 40.87	(18) 44.22	(18) 36.70	(17) 14.71	(18) 21.85	(18) 81.55	(18) 21.16	(18) 32.01
Pseudo R ²	0.0016							
rseudo K	0.0016	0.0403	0.0348	0.0246	0.0457	0.0862	0.0211	0.0526

Variable legend: (t-stats in parenthesis)

DISSERVICES:

MOREPROD: limits in the FT food product range; MOREDRESS: limits in the FT clothing product range; MOREOBJECT limits in the FT giftware product range; NOONLINE: absence of on-line sales; BADPROFES: scarce professional experience of the FT personnel; BADPLACE: unsatisfactory location of the FT outlet; BADTIME: reduced opening time of FT shops; BADPERS: scarce courtesy of the FT *world shop* personnel. REGRESSORS:

DISTANCE: declared distance from the nearest FT world shop in minutes; INCOME: average net family income calculated as monthly after tax (wage) amily income minus or plus all other (nonwage) income flows (i.e. mortgages, housing rents, etc.); SCHOOL: average schooling years; NORTH-EAST: dummy for consumer location in the North-East of the country (Trentino-Alto Adige, Veneto, Friuli-Venezia Giulia, Emilia Romagna); NORTH-WEST: dummy for consumer location in the North-West of the country (Piemonte, Valle D'Aosta, Lombardia, Liguria); SOUTH: dummy for consumer location in the South of the country (Calabria, Campania, Puglia, Sardegna, Sicilia); NCVOL: volunteer members of non confessional associations, CVOL: volunteer members of confessional associations; NGO: member of a development NGO (for definition see footnote 15); FIDELWS: duration of purchasing habits in *world shops* (dedicated FT outlets) (number of years); WSONLY: dummy for those purchasing from *world shops* only; FIDELLS: duration of purchasing habits in the large scale distribution (number of years).

Table 8 The determinants of the willingness to pay in excess for the SR features of FT products

	FIRST EQUA	ATION:	SECOND EQUATION:			
	DEP. VARIA	BLE =	DEP. VARIABLE =	AWARENESS		
	WILLINGNESS	TO PAY IN	OF AT LEAST FI	VE FT SR		
	EXCESS FOR	THE SR	CRITER	ÍΑ		
	FEATURES OF FT	PRODUCTS	(KNOWMOSTC	RITERIA		
	Coeff.	T-stat	Coeff.	T-stat		
DLS	-0.478	-8.73				
Log(Virtdistance)	-0.246	-15.94				
Log(Income)	-0.119	-1.04	-1.49	-0.001		
MALE	0.079	1.66	0.029	0.27		
Log(Age)	0.044	0.18	-0.470	-2.04		
Log(School)	-0.193	-1.3	0.334	1.15		
NORTH-EAST	-0.213	-0.84	0.014	0.06		
NORTH-WEST	-0.023	-0.13	0.224	1.23		
South	0.203	1.3	0.187	1.27		
FAITH	0.122	1.02	-0.050	-0.43		
STUDENT	-0.021	-0.12	-0.174	-0.99		
THEACHER	0.320	0.92	-0.363	-1.03		
MANUAL WORKER	0.109	0.33	-0.281	-0.76		
Clerk	0.027	0.2	-0.071	-0.55		
NCVOL	-0.109	-0.76	0.676	5.97		
CVOL	-0.044	-0.31	0.250	1.87		
Ngo	-0.108	-0.62	0.391	2.42		
Log(fidelWS)	0.132	1.38	0.186	1.72		
WSONLY	-0.164	-1.16	-0.044	-0.31		
Log(fidelLS)	-0.087	-0.73	-0.050	-0.43		
KNOWMOSTCRITERIA	0.774	2.07				
CONSTANT	3.14	2.35	1.03	1.91		
LR- TEST		3.				
OF INDEPENDENCE OF		(0.0	07)			
THE TWO EQUATION S						
N. of Obs.		40	53			
Log-L		_103	37.6			
ON OVERALL			00)			
SIGNIFICANCE						

We estimate a treatment regression model whose specification is presented in section 5.3

Variable legend. The dependent variable of the first equation $Wpaysoc_{ijl}$ is the declared willingness to pay in excess for the SR features of the FT product of consumer i at the j_{th} distance from the FT shop (0, 15, 30 minute distance) from the l^{th} type of retailer (FT *world shop* or supermarket). Information on these variables is drawn from questions 29-34 in the attached survey). *Virtdist_{ij}* is the "virtual" distance at which the consumer i buys the product, *DLS* is a dummy taking value of one (zero) if the "virtual" purchase is done in the large scale distribution (*world shops*). Other regressors are defined as in section 5.1.

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Appendix A

The extraction of the relative preference for social responsibility from econometric estimates of the willingness to pay in excess for the SR features of FT products

Consumers interviewed in our survey are asked, at questions 29-34, about their willingness to pay in excess for a FT product with respect to an equivalent non FT product.

Let us assume, as a first approximation, that the interviewed consumers have standard Cobb-Douglas preferences

$$U = x_{SR}^{\alpha} x_{NSR}^{\beta} y^{\gamma} \tag{A.1}$$

where x_{SR} is the FT good, x_{NSR} is an equivalent good, whose only difference from the previous one is in the absence of SR features, and y represents all other goods. Under a standard linear budget constraint the demand for the FT and for the equivalent non FT good will be respectively

$$x_{SR} = \frac{m}{p_{X_{SR}}} \frac{\alpha}{\alpha + \beta + \gamma}$$
 (A.2) and $x_{NSR} = \frac{m}{p_{X_{NSR}}} \frac{\beta}{\alpha + \beta + \gamma}$ (A.3),

the difference between the two being
$$x_{SR}p_{X_{SR}} - x_{NSR}p_{X_{NSR}} = m\frac{\alpha - \beta}{\alpha + \beta + \gamma}$$
 (A.4)

Hence, when estimating specification

$$\log[x_{SR}p_{X_{SR}} - x_{NSR}p_{X_{NSR}}] = \log(m) + \log\left(\frac{\alpha - \beta}{\alpha + \beta + \gamma}\right)$$
(A.5)

we are exactly measuring with the intercept the magnitude of individual social preferences. In our estimate the second term of the above expression is around 2.6 giving an abnormal preference premium for social responsibility with α - β =13.5, which is obviously incompatible with constant returns to scale α + β =1.

The Cobb-Douglas, though, is a special case of a more general class of Constant Elasticity of Substitution functions. Its main limit²³ is the assumption of a constant unit elasticity of substitution between the two inputs. We argue that SR consumers are likely to have less than unit elasticity of substitution given the character of their preferences (e. g. they are likely to less than double expenditure in non SR products with respect to SR products if the ratio of the SR to the non SR price doubles). This assumption appears consistent with motivation and behaviour of SR consumers and, more specifically, with the reluctance of many of them to buy FT products in supermarkets (see section 4.4).²⁴

We therefore calculate the preference differential between SR and non SR goods by assuming that consumers have CES utility function,

$$U = A[\alpha X_{SR}^{\delta} + (1 - \alpha) X_{NSR}^{\delta}]^{1/\delta}$$
(A.6)

obtaining the following optimal demand for the socially responsible goods

$$x_{SR} = \left(\frac{\alpha}{p_{X_{SR}}}\right)^{\sigma} \frac{m}{\alpha^{\sigma} p_{X_{SR}}^{1-\sigma} + (1-\alpha) p_{X_{NSR}}^{1-\sigma}}$$
 (A.7) where $\frac{1}{1-\delta} = \sigma$ or the elasticity of substitution.

Under the CES specification the difference between demand for SR and non SR products becomes

²³ The CES function shares the Cobb-Douglas function's homogeneity of degree one. This causes the income-consumption curves to be rays through the origin. Also, the income elasticity of demand is unity for both products. The Cobb-Douglas function is restrictive in an additional way with respect to the CES function. Its price consumption curve is horizontal, with the resulting unit price elasticity of (uncompensated) demand. The amount of good is independent of the price of good X, as are income shares for X and Y. The CES formulation does not share this restriction.

²⁴ Consider also that, under the extreme case of boycott, of some non FT products the elasticity of substitution falls to zero.

$$x_{SR}p_{X_{SR}} - x_{NSR}p_{X_{NSR}} = p_{X_{SR}} \left(\frac{\alpha}{p_{X_{SR}}}\right)^{\sigma} \frac{m}{\alpha^{\sigma}p_{X_{SR}}^{1-\sigma} + (1-\alpha)^{\sigma}p_{X_{NSR}}^{1-\sigma}} - p_{X_{SR}} \left(\frac{\alpha}{p_{X_{NSR}}}\right)^{\sigma} \frac{m}{\alpha^{\sigma}p_{X_{NSR}}^{1-\sigma} + (1-\alpha)^{\sigma}p_{X_{SR}}^{1-\sigma}}$$
(A.8)

Since in our question we demand about the willingness to pay assuming that the two goods have the same price we may simplify the formula to

$$x_{SR} p_{X_{SR}} - x_{NSR} p_{X_{NSR}} = \left[p^{1-\sigma} \left(\alpha^{\sigma} - \left(1 - \alpha \right)^{\sigma} \right) \right] \frac{m}{\alpha^{\sigma} p^{1-\sigma} + (1-\alpha)^{\sigma} p^{1-\sigma}}$$
(A.9)

Hence, when we estimate the specification

$$\log[x_{SR} p_{X_{SR}} - x_{NSR} p_{X_{NSR}}] = \log(m) + \log q$$
(A.10)

in the CES case we have

$$q = p^{1-\sigma} \frac{\alpha^{\sigma} - (1-\alpha)^{\sigma}}{\alpha^{\sigma} + (1-\alpha)^{\sigma}}$$
(A.11)

Under the assumption of a less than unit elasticity of substitution our estimated value is compatible with constant returns to scale in the utility function. More specifically, by assuming an average weekly expenditure in food products of 40 euros, our estimated value of the intercept is consistent with α =.99 and σ =.1.

If we remove the assumption of constant returns to scale in the utility function we may obtain more reasonable and reduced relative preferences for social responsibility (and, more specifically, a preference structure where weight for SR products is less than 13 times larger than that of non SR products as in the Cobb-Douglas case where we assumed unit elasticity of substitution).

Appendix B NOT TO BE PUBLISHED

Table A1 The determinants of fair trade expenditures (dep. Var.: daily expenditure in FT

oroducts)			_			
Log(Distance)	-0.220	-0.223	-0.212	-0.208	188	-0.150
LOG(DISTANCE)	(-3.86)	(-3.86)	(-3.63)	(-3.63)	(-3.46)	(-2.87)
Log(Income)	-0.009	-0.004	0.010	0.066	0.141	0.154
LOG(INCOME)	(-0.11)	(-0.06)	(0.12)	(0.76)	(1.69)	(1.88)
		0.013	0.010	-0.019	-0.071	-0.081
MALE		(0.14)	(0.11)	(-0.21)	(-0.85)	(-0.98)
Log(Age)		0.738	0.735	0.371	0.400	0.437
LOG(AGE)		(5.36)	(5.27)	(2.14)	(2.42)	(2.58)
Log(School)		0.223	0.243	0.065	-0.061	-0.108
LOG(SCHOOL)		(0.94)	(1.02)	(0.29)	(-0.28)	(-0.51)
NORTH-EAST			-0.071	-0.018	0.100	0.094
NORTH-EAST			(-0.36)	(-0.09)	(0.53)	(0.49)
NORTH-WEST			0.284	0.289	0.324	0.270
NORTH-WEST			(1.99)	(2.00)	(2.36)	(2.01)
Correct			0.166	0.191	0.211	0.176
SOUTH			(1.42)	(1.61)	(1.92)	(1.66)
_			,	-0.103	-0.156	-0.128
FAITH				(-1.15)	(-1.77)	(-1.47)
_				-0.519	-0.360	-0.347
STUDENT				(-3.48)	(-2.52)	(-2.45)
				-0.048	0.111	0.127
THEACHER				(-0.19)	(0.52)	(0.60)
				-0.023	0.124	0.138
MANUAL WORKER						
				(-0.06)	(0.31)	(0.35)
CLERK				-0.219	-0.191	-0.171
				(-2.01)	(-1.91)	(-1.74)
NCVOL					0.572	0.461
					(6.57)	(5.19)
CVOL					0.081	0.038
CYGE					(0.77)	(0.37)
NGO					0.232	0.173
NGO					(2.06)	(1.53)
Log(fidelWS)					0.252	0.188
LOG(FIDEL W 3)					(3.43)	(2.56)
WSONLY					0.353	0.350
WSONLY					(2.92)	(2.91)
I o g(pyppy I C)					0.273	0.245
Log(fidelLS)					(3.37)	(3.13)
KNOWMOSTCRITERI					(2.2.7)	0.466
A						(5.44)
NOCOMPLAINTS						0.127
						(1.38)
CONSTANT	-0.274	-3.473	-3.709	-2.12	-3.438	-3.700
	(-0.42)	(-3.76)	(-3.96)	(-1.93)	(-3.20)	(-3.41)
N. of Obs.	725	701	701	701	701	701
E TEGT						
F- TEST	(2,722)	(5,695)	(8,692)	(13, 687)	(19, 681)	(21, 679)
ON OVERALL	7.59	9.79	7.28	5.85	12.15	13.14
SIGNIFICANCE						
Adj. R ²	0.021	0.063	0.069	0.088	0.212	0.241

Variable legend: DISTANCE: declared distance from the nearest FT world shop in minutes; INCOME: average net family income calculated as monthly after tax family income minus or plus all other income flows (i.e. mortgages, housing rents, etc.); SCHOOL: average schooling years; NORTH-EAST: dummy for consumer location in the North-East of the country (Trentino-Alto Adige, Veneto, Friuli-Venezia Giulia, Emilia Romagna); NORTH-WEST: dummy for consumer location in the North-West of the country (Piemonte, Valle D'Aosta, Lombardia, Liguria); SOUTH: dummy for consumer location in the South of the country (Calabria, Campania, Puglia, Sardegna, Sicilia); NCVOL: volunteer member of non confessional associations, CVOL: volunteer member of confessional associations; NGO: members of a development NGO (for definition see footnote 15); FIDELWS: duration of FT purchasing habits (number of years); WSONLY: dummy for those purchasing from world shops only; FIDELGDO: duration of purchasing habits of FT products in supermarkets (number of years); KNOWMOSTCRITERIA: knowledge of at least 5 out of 8 FT criteria; NOCOMPLAINTS: absence of complaints on fair trade chain.

Table A2 The determinants of awareness of fair trade criteria

Table A2 Th	e accerman							
	FAIRPRICE	PREFIN	STABPRICE	LABOUR	ENVIROMN	LONGRUN	TRANSPAR	PUBGOODINV
MALE*	.00065	013	.030	059	023	.014	048	034
	(0.02)	(-0.35)	(0.85)	(-1.67)	(-0.60)	(0.42)	(-1.26)	(-0.90)
Log(Incomind)	.000015	00001	00006	-3.03e-06	00003	00002	00003	-8.44e-07
	(0.70)	(-0.39)	(-2.03)	(-0.14)	(-1.03)	(-0.76)	(-1.24)	(-0.039
AGE	108	.067	032	185	175	152	328	086
	(-1.82)	(0.91)	(-0.47)	(-2.61)	(-2.26)	(-2.23)	(-4.32)	(-1.15)
EDUCATION	.183	.153	.135	.199	.108	.103	040	.036
	(2.33)	(1.52)	(1.41)	(2.28)	(.08)	(1.11)	(-0.40)	(0.36)
FEDE*	009	.027	039	040	101	063	093	007
	(-0.27)	(0.70)	(-1.05)	(-1.13)	(-2.54)	(-1.73)	(-2.31)	-0.18
CTUDENT	095	.038	038	132	131	074	054	084
STUDENT	(-1.83)	(0.63)	(-0.68)	(-2.25)	(-2.10)	(-1.39)	(-0.89)	(-1.41)
THEACHER	111	.127	119	.083	066	.083	035	.098
THEACHER	(-1.17)	(1.12)	(-1.22)	(0.84)	(-0.58)	(0.81)	(-0.31)	(0.90)
MANUAL	044	016	022	073	136	.026	071	143
WORKER	(-0.47)	(-0.14)	(-0.20)	(-0.69)	(-1.14)	(0.24)	(-0.61)	(-1.27)
CLERK	006	108	034	058	015	039	032	071
CLERK	(-0.17)	(-2.47)	(-0.83)	(-1.35)	(-0.33)	(-0.98)	(-0.70)	(-1.62)
Marrox	.09	.290	.111	.132	.110	.162	.180	.144
NCVOL	(2.72)	(7.43)	(2.96)	(3.61)	(2.73)	(4.45)	(4.51)	(3.65)
CVOL	.079	.065	.083	.077	.112	.078	.111	.058
CVOL	(2.08)	(1.39)	(1.87)	(1.81)	(2.38)	(1.79)	(2.33)	(1.25)
NGO	041	.105	.129	.026	.08	.089	.036	.149
NGO	(-0.89)	(1.90)	(2.47)	(0.53)	(1.45)	(1.75)	(0.66)	(2.70)
Log(fidelLS)	.039	.04	.05	.045	.103	.012	.047	.027
LOG(FIDELLS)	(1.14)	(1.06)	(1.43)	(1.19)	(2.57)	(0.35)	(1.22)	(0.71)
WSONLY	.044	.057	084	006	.083	006	.063	.041
WSUNLY	(1.10)	(1.19)	(-1.82)	(-0.13)	(1.70)	(-0.13)	(1.30)	(0.86)
Log(fidelWS)	.050	.129	.139	.104	.098	.111	.127	.117
LOG(FIDEL W 5)	(2.10)	(4.60)	(5.18)	(3.92)	(3.36)	(4.27)	(4.33)	(4.11)
North-East	.043	054	043	.019	.085	.009	.018	.022
NORTH-EAST	(0.66)	(-0.68)	(-0.57)	(0.26)	(1.05)	(0.12)	(0.22)	(0.27)
NORTH-WEST	.089	057	005	.119	.02	.098	04	.079
NORTH-WEST	(1.71)	(-0.89)	(-0.08)	(2.06)	(0.30)	(1.63)	(-0.61)	(1.23)
SOUTH	.016	014	007	.037	.024	020	028	017
SOUTH	(0.40)	(-0.29)	(-0.15)	(0.84)	(0.49)	(-0.45)	(-0.57)	(-0.35)
Number of obs	793	793	793	793	793	793	793	793
LR χ^2 (18)	51.14	130.03	80.12	77.44	70.65	75.60	91.52	65.70
Pseudo R2	0.0595	0.1251	0.0807	0.0794	0.0646	0.0792	0.0846	0.0614

Variable legend:

AWARENESS OF FAIR TRADE CRITERIA Fair price: premium on the price paid on primary products by local intermediaries or food transnationals. Prefinancing: anticipated financing which reduces the impact of credit rationing of small uncollateralized producers. Price stabilization: price stabilization mechanisms which insulate risk averse primary product producers from the volatility of commodity prices; Labour: the intervention to improve working conditions and to remove factors leading to child labour through monetary integration of poor household income; Pgoods: preferential inclusion in the fair trade chain of projects reinvesting part of the surplus arising from the fair price in the provision of local public goods (health, education, job training). Environment: attention to the environmental sustainability of production processes; Longrun: creation of long run relationships between importers and producers and provision through them of export services). For further details on these criteria see section 3.

REGRESSORS. NUMDISTANCE: declared distance from the nearest FT world shop in minutes; INCOMEM: average net family income is calculated as monthly after tax family income minus or plus all other income flows (i.e. mortgages, housing rents, etc.); SCHOOL: average schooling years; NORTH-EAST: dummy for consumer location in the North-East of the country (Trentino-Alto Adige, Veneto, Friuli-Venezia Giulia, Emilia Romagna); NORTH-WEST: dummy for consumer location in the North-West of the country (Piemonte, Valle D'Aosta, Lombardia, Liguria); SOUTH: dummy for consumer location in the South of the country (Calabria, Campania, Puglia, Sardegna, Sicilia); NCVOL: volunteer member of non confessional associations, CVOL: volunteer member of confessional associations; NGO: membership of an NGO; FIDELLS: duration of purchasing habits in "world shops" (dedicated FT outlets) (number of years); WSONLY: dummy for those purchasing from world shops only; FIDELLS: duration of purchasing habits in the large scale distribution (number of years). For details and discussion of these criteria see section 3

QUESTIONNAIRE

Appendix C QUESTIONNAIRE	7. Reasons for buying FT products (max. three answers in descending order of priority: 1 the most important,,3 the least important)	13. Which limits and/or disservices do you find in <i>world shops</i> ? (max. three answers in descending order of priority)
 How long have you been buying FT products in world shops? One year Three years Five years More than 5 years 	Ethics Higher transparency in the product chain More confidence in product quality Price/quality convenience Ethnic features of the product	 □ Lack of personnel courtesy □ Reduced opening time □ Limited product range □ Bad location □ Scarce professional assistance □ No on line purchases
2. What you generally buy in <i>world shops</i> ? (max. three answers in descending order of priority: 1 the most important,,3 the least important)	8. Distance from the nearest <i>world shop</i>	Knowledge of FT 14. How did you know FT?
☐ Food ☐ Textile\clothing ☐ Musical instruments artisan products ☐ Other	□ 20 – 40 minutes □ > 40 minutes Evaluation of FT products	 □ Friends □ Promotional campaigns □ Fairs/exhibitions/conferences □ Media Advertising □ World Shops
 What is the frequency of your FT purchases? More than once in a month At least once in a month Every two-three months One-two times a year Less than once a year 	 9. How do you judge information on products? □ Exhaustive □ Incomplete □ Difficult to find □ Never seen 	Other 15. Do you know the meaning of "fair price"? Yes Not perfectly No
 4. How much do you spend on average for any purchase? □ < 5 € □ 5 − 10 € □ 10 − 25 € □ > 25 € 	 10. How do you judge the quality of FT food products? Scarce Sufficient Good Very good 11. How do you judge the quality of FT non food products? 	 16. What do you like more when entering a world shop? (max. three answers in descending order of priority) Ethnic environment Courtesy/kindness of the personnel Originality of products Opportunity to share values and of social aggregation
 5. How much do you spend for FT products? □ € a week □ € a month □ € every six months □ € a year 	□ Scarce □ Sufficient □ Good □ Very good	Other 17. How do you judge the idea of a common European label for FT products?
 6. Do you buy FT products always in the same FT shop? Yes Yes because I do not know other world shops No, also in other world shops No, also in the large scale distribution 	12. For which kind of products you would like to have an extended range in <i>world shops</i> ? (max. three answers in descending order of priority) □ Food □ Clothing □ Giftware □ Other	 Very useful to increase FT product sales Useful but not fundamental to sell this kind of products Not important because world shops give enough guarantee I don' know Fair trade and large scale distribution

18. Do you know that FT products are sold also in the large scale distribution?		24.	Which products would you like to find in the large scale distribution? (max. three answers in descending order of priority)		Attention to	working conditions environmental susta al transparency	inability	,	
		Yes		r - 3)			lationship with produ	icers	
		No		□ Food		J			
	_			□ Clothing	29 Δ	ssuming to sh	op once a week for	food pr	oducts and to
10	16						shop at the same d		
19.		why are you purchasing them in a world shop? (max.		□ Giftware	na	ive a world s	snop at the same of	istance	or a non Fr
	thre	ee answers in descending order of priority)		Other	οι	itlet, how much	ch are you willing t	o spend	in excess per
					m	onth for a FT	product with respec	t to an e	equivalent non
		Comfort/financial reasons	25.	Are you favourable to the sale of FT products by the large scale	F	Γ product?			
		Wider choice of FT products		distribution ?		•			
		More information				0 euro	■ 100 euros		250 euros
		Courtesy of the world shop personnel		☐ Yes, because it contributes to the diffusion of FT	_	50 euros	☐ 150 euros	_	
		Social and relational networking		☐ Yes, but only if FT principles (fairness, transparency		75euros	200 euros	_	300 Curos
	_	Social and relational networking		etc) are respected	_	/ Jeuros	200 Euros		
20	Do voi	a buy FT products also in the large scale distribution?		No, because it cannot be consistent with FT principles	•				
20.	Do you	dody in a products also in the large scale distribution?		Don't know			shop once a week for		
		X/ C		□ Don t know	to l	nave a world s	hop at 15 minute ad	<u>ditional</u>	distance than
		Yes, often			a ne	on FT outlet, l	how much are you w	illing to	spend in
		Yes, sometimes					for a FT product w		
		Seldom	26.	Would you like all world shops having common features (as in		ivalent non F		г	
		Never		franchising) to make it easier for consumers to recognise	cqu	iivaiciit iioii i	i product:		
				them?		0	D 100		250
						0 euro	□ 100 euros		
2.1	If ves v	what? (max. three answers in descending order of priority)		☐ I'm favourable because it would be advantageous for all		50 euros	☐ 150 euros		500 euros
,)	()		the FT product chain		75euros	□ 200 euros		
		Food products		☐ It could be done but I do not believe there would be					
		Textile/clothing		great advantage from it			shop once a week		
				☐ I'm against because	to	have a world	shop at 30 minute n	ore dis	tance than a
		Artisan products		1 in against occause	nc	n FT outlet h	low much are you w	illing to	spend in
		Other		 -			th for a FT product v		
								vitii i cs	occi to an
				*******	eq	uivalent non I	r i product?		
22.	Since v	when?	27.	Which of the following FT criteria do you know?	_		D 100		• • •
						0 euro	□ 100 euros		250 euros
		Less than a year		☐ Fair price		50 euros	☐ 150 euros		500 euros
		1-2 years		 Prefinancing schemes for producers 		75euros	□ 200 euros		
		3-4 years		□ Price stabilisation					
		5-10 years		☐ Investment in local public goods (health, education)					
	_	2 10 90010		☐ Care for working conditions	32	Assuming to	shop once a week f	or food	products and
				☐ Care for environmental sustainability			ale distribution selling		
2	How do	you judge the choice of FT products in the large scale		☐ Informational transparency			of a non FT outlet,		
23.		ribution?		Long run relationship with producers					
	uisi	itioution?		Long run relationship with producers			in excess per month		I product with
			20	Which of the fellowing ET critoria are many immediate to one 9	res	pect to an equi	ivalent non FT prod	uct?	
		Scarce	28.	Which of the following FT criteria are more important to you?					
		Sufficient		(max. three answers in descending order of priority)		0 euro	■ 100 euros		250 euros
		Wide				50 euros	☐ 150 euros		500 euros
		Don't know		☐ Fair price	_	75euros	□ 200 euros	_	
				☐ Anticipated financing	_				
				☐ Price stabilisation	22	A comming to	shop once a week	or food	products and
				☐ Investment in local public goods (health, education)					
				6	to	nave large sca	ale distribution selli	ng F I p	roducts at 15

minutes additional distance than a non FT outlet, how much are you willing to spend in excess per month for a FT product with respect to an equivalent non FT product?	□ 3.000 – 3.500 □ 3.500 – 4.000 □ 4.500 – 5.000 □ 5.000 – 5.500 □ 5.500 – 6.000 □ > 6.000
☐ 0 euro ☐ 100 euros ☐ 250 euros ☐ 50 euros ☐ 150 euros ☐ 500 euros ☐ 75euros ☐ 200 euros ☐ 34. Assuming to shop once a week for food products and	Household: SINGLE 2 PERSONS 3 PERSONS 4 PERSONS
to have large scale distribution selling FT products at 30 minutes additional distance than a non FT outlet, how much are you willing to spend in excess per month for a FT product with respect to an equivalent non FT product?	☐ 5 PERSONS ☐ > THAN 5 PERSONS Faith: ☐ BELIEVER ☐ NON BELIEVER Are you active and/or do you belong to: ☐ ORGANISATION, ASSOCIATION OR GROUP OF NON CONFESSIONAL VOLUNTEERS
□ 50 euros □ 150 euros □ 500 euros □ 75euros □ 200 euros	☐ ORGANISATION, ASSOCIATION OR GROUP OF CONFESSIONAL VOLUNTEERS ☐ POLITICAL PARTY ☐ NGOs
Consumers personal information	
Region:	
Sex: MALE FEMALE	
Professional status: MAN.WORKER PROFESSIONAL. CLERK RETIRED EXECUTIVE STUDENT ENTREPRENEUR UNEMPLOYED OTHER OTHER	
Education: □ ELEMENTARY SCHOOL □ MIDDLE SCHOOL □ HIGH SCHOOL □ UNIVERSITY DEGREE	
Net monthly household income: ☐ < 1.500 € (wage,+/-rents,+/-interests) ☐ 1.500 − 2.000 ☐ 2.00 − 2.500 ☐ 2.500 − 3.000	