A Theory of Planned behaviour perspective for investigating the role of trust in consumer purchasing decision related to short food supply chains

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2 in consumer purchasing decision related to short food supply chains

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9

10 **Abstract**

11 *To better understand the success and the spreading in number of short food supply chains (SFSCs) in Italy, this study*
12 *investigates consumer motivations and behaviour with regard to such alternative agri-food networks using an extended*
13 *model of the Theory of Planned Behaviour (TPB). In particular, this paper studies the role of consumer trust towards*
14 *purchasing in SFSCs as well as the role of consumer rural background and fair-trade purchasing preference, in*
15 *addition to common TPB variables. To this purpose, an online survey has been conducted on a convenience sample of*
16 *260 consumers in Italy. A Structural Equation Modeling (SEM) has confirmed the role of trust as direct antecedent of*
17 *consumer intention to purchase food at SFSCs, as well as the best-supported attitudes, subjective norms and perceived*
18 *behavioural control in the standard TPB model. In addition to intention and perceived behavioural control, the*
19 *behaviour is found to be influenced also by consumer rural residence and fair trade purchasing habit. These evidences*
20 *are interesting in order to suggest further marketing strategies for farmers, in the direction of more ethical and trust-*
21 *related forms of consumption.*

22

23 **Keywords:** trust; structural equation modeling; short food supply chains; consumer behaviour; theory of planned
24 behaviour.

25

26 **Introduction**

27 Nowadays, there is an intense movement in the debate on consumer trust in food choice. Indeed,
28 due to many food scandals (Forbes et al., 2009) and the progressive industrialization and
29 globalization of agri-food chains, consumer skepticism about food quality and safety has been
30 increasing during the last decades (Toler et al., 2009). Although product or process certifications
31 and labelling sometimes succeed in solving this problem, sometimes they fail instead as customers
32 often ignore or misinterpret the meaning of specific certifications (Grunert, 2005). In addition, the
33 perception of some food attributes, by their very nature, cannot be identified through a system of
34 certification, as in the case of Short Food Supply Chains (SFSCs) that boast some proper credence
35 characteristics (Migliore et al., 2015). These alternative circuits of food provision (e.g., farmers
36 markets, on farm direct selling) increasingly gained ground all over Europe and in Italy as well
37 (Kneafsey et al., 2013; Marino and Cicatiello, 2012) in recent years, representing a sustainable
38 alternative to global chains in terms of economic, social and environmental benefits (Giampietri et
39 al., 2016a; Mundler and Laughrea, 2016). This is in line with the current critical and ethical

40 consumerism that is highly related to both environmental and health impacts of food consumption

41 (Banterle et al., 2012). Notoriously, SFSCs reconnect farmers and consumers (Kirwan, 2004).

42 Those direct interactions between the actors are found to provide consumers with a sense of trust

43 that affect their purchasing decisions in relation to short chains (Holloway and Kneafsey, 2000).

44 To better understand the success and the spreading in number of such alternative agrifood networks,

45 based on two previous explorative surveys, this study explores the influence of the main

46 determinants of consumer intention and behaviour, as required by the Theory of Planned Behaviour

47 (TPB) (i.e., attitudes, subjective norms and perceived behavioural control). In addition, the paper

48 provides useful information about the role of consumer trust and their residential area and fair trade

49 consumption habits in order to predict and explain SFSCs-related purchasing decisions.

50

69 **Background**

70 In developing our conceptual framework, we draw on a previous work and the Theory of Planned

71 Behaviour by Ajzen (1991). TPB is rooted in social-psychology and represents one of the most

72 widely cited alternative approaches to understand and predict human behaviour. According to Ajzen

73 (2015), this theory does not rely on the utility evaluation of a product or a service, but it focuses on

74 the specific behaviour of interest, providing a comprehensive framework to explain and understand

75 its determinants. Many studies (Cook et al., 2002; Verbeke and Vackier, 2005; Louis et al., 2007;

76 Smith et al., 2008) have already demonstrated the predictive power of TPB in relation to food

77 purchase and consumption decisions. However, to the best of our knowledge, only little use of TPB

78 has been applied to investigate consumers' preferences for buying food at SFSCs (Giampietri et al.,

79 2015; Giampietri et al., 2016b). TPB central premise is that a precise behaviour is a function of the

80 intention (INT) to perform it and the perceived behavioral control (PBC). The stronger these two

81 determinants, the more likely the behavioural performance would be. Furthermore, the intention is

82 determined by the combination of three factors as attitudes (ATT), subjective norms (SN), and PBC

83 with respect to the behaviour in question, and these are influenced by behavioural, normative and

84 control beliefs, respectively. The more favorable ATT and SN and the greater PBC, the more likely

85 a consumer intention to engage in the concerning behaviour. Furthermore, some other factors can be

86 considered as additional determinants of the intention within the TPB original framework, as past

87 behaviour and self-identity (Carfora et al., 2016), risk perception (Lobb et al., 2007) or trust

88 (Mazzocchi et al., 2008).

89 In relation with the open debate on consumer increased distrust, during the last years we assisted to

90 the decreasing of consumer proximity to farming (Thorsøe and Kjeldsen, 2016) and the consequent

91 increasing attention in gaining new knowledge about food that we eat, e.g., where and how it is

produced and by whom, known as "quality turn" (DuPuis, 2000; Goodman, 2004). Accordingly, nowadays food safety and quality represent a black box for consumers, especially for those who live in urban areas that, by their very nature, are quite far from the production process and have lost their control over food. It is worth noting that the erosion of consumer confidence grows when the risk of moral hazard along the food chain prevails, in the first place affecting customer loyalty towards the seller and/or the brand, and creating food safety concerns (Hobbs and Goddard, 2015).

Interestingly, trust represents a solution for those situations that are characterized by increasing complexity and lack of knowledge, as in the case of consumer trust in food and buyer-seller relationships (Frewer et al., 1996; Lassoued and Hobbs, 2015).

Nowadays, the necessity to rebuild and strengthen consumer trust between consumption and farming represents one of the main challenges in the marketing field. Accordingly, Ding et al. (2015) state that trust, especially towards farmers (instead of retailers), represents a complex and hard-to-measure concept that plays an important role in decision-making, especially when the information is scarce or hard to assess as the food purchasing process. Therefore, customer trust can have a key role to solve this problem, as it can tackle the loss of both knowledge and control over the supply chain and drive food choices, especially in the case of SFSCs.

Fostering the reconnection between producers and consumers by means of reducing the number of actors and distances along the supply chain (Marsden et al., 2000; Parker, 2005), SFSCs are found to significantly contribute to many social, environmental and economic sustainable goals related to the agri-food sector (Ilbery and Maye, 2005; Forssell and Lankoski, 2014). Many authors (Trobe, 2001; Schneider, 2008; Tregear, 2011; Hartmann et al., 2015) found that the direct interactions between farmers and consumers as well as their repeated encounters can provide consumers with a sense of trust built especially on shared know-how and mutual understanding (Meyer et al., 2012). Indeed, these typical SFSCs' face-to-face initiatives (Renting et al., 2003) let producers and consumers interact, share and exchange information related to both food products and production process and their personal values (O'Kane and Wijaya, 2015), reducing the information asymmetry and establishing new solid loyalty. In this framework, trust becomes a substitute for full knowledge (Grebitus et al., 2015) and its role in influencing consumer food choice and purchasing decision seems to be increasingly important nowadays.

In order to examine consumer motivations for purchasing food at SFSCs (instead of conventional markets), the present study examines the impact of trust on purchasing intention, comparing an extended TPB model with a classic TPB framework. In addition, the paper also considers the role of consumers residential area and fair trade purchasing habit in influencing the investigated behaviour.

Data and Methodology

The methodology used is based on an empirical analysis carried out in Italy during the first semester of 2016. An extended TPB model was assessed to investigate the determinants of consumer purchasing habits related to SFSCs as market locations. To this purpose, we implemented an online survey among a convenience sample of 260 Italian respondents that affirmed to commonly purchase food at short circuits as farmers' markets (46%) or on farm directly (43%), whereas the remaining 11% prefer other forms of SFSCs as solidarity purchasing groups. The survey was administered as an online questionnaire that was pre-tested among a small sample (25 participants) in December 2015, and only minor changes were made based on this. The questionnaire included three sections: the first section asked respondents to state their purchasing habits related to SFSCs in terms of buying frequency. The second section was designed for the assessment of five TPB variables; specifically, each variable was measured with three items rated on a 7-point response format. Finally, the third section incorporated some socio-demographic questions describing the sample.

Section number two, was aimed at assessing trust (TRUST) towards purchasing food at SFSCs and the original components of TPB as respondents' attitudes (ATT), subjective norms (SN), perceived behavioural control (PBC), and intention (INT).

Three adjective pairs were used to measure attitudes as follows: "Purchasing food at SFSCs is *not gratifying – gratifying; unpleasant – pleasant; not satisfying – satisfying* to me"; composite reliability was 0.91.

Subjective norms were assessed through the following 7-point *strongly disagree – strongly agree* three items: "Most people who are important to me would approve on my purchasing food at SFSCs instead of conventional markets"; "Most people who are important to me want that I purchase food at SFSCs instead of conventional markets"; "Most people who are important to me think that I should purchase food at SFSCs instead of conventional markets". The composite reliability was 0.91.

To measure PBC the following 7-point *totally false – totally true* three items were used: "Purchasing food at SFSCs is easy to me"; "If I wanted to I could easily purchase food at SFSCs"; "Purchasing food at SFSCs depends entirely on me"; composite reliability was 0.73.

The intention to purchase food at SFSCs instead of conventional markets was measured using these 7-point *strongly disagree – strongly agree* three items: "I intend to purchase food at SFSCs for the next month"; "I plan to purchase food at SFSCs next month"; "I am willing to buy food at SFSCs next month"; composite reliability was 0.91.

Finally, based on Hartmann et al. (2015), with adjustments, the additional variables of trust was measured by the following 7-point *totally false – totally true* three items: "I perceive purchasing at

160 SFSCs to be reliable"; "Purchasing at SFSCs appears trustable to me"; "I trust in purchasing food at

161 SFSCs"; composite reliability was 0.92.

162 Finally, we performed descriptive analysis using SPSS version 17, whereas Mplus 7 statistical

163 software was used to conduct structural equation modeling (SEM). To measure the goodness of fit

164 for the proposed models, the following indices were considered: χ^2 (chi-square), Comparative Fit

165 Index (CFI), the Tucker-Lewis Index (TLI)[1], and the Root Mean Square Error of Approximation

166 (RMSEA). The purpose has been to test a nested comparisons of a traditional TPB model and an

167 extended TPB model, as previously described. The extended TPB model has been developed in

168 order to verify the additional predictive power of trust on predicting consumer purchase at SFSCs.

169 Therefore, we have integrated TRUST to the original three TPB main antecedents of INT and we

170 have hypothesized that such variable had an influence on consumer intention that, in turn,

171 represents ad antecedent of consumer behaviour. In addition, our extended TPB model benefits by

172 the inclusion of two other additional factors in terms of behavioural explanatory variable, namely

173 consumer residential area (RESID) and fair-trade purchasing habit (FAIRTRADE). The statistical

174 procedure for testing hierarchical models was used. Given that to accept an extended TPB model it

175 is necessary to compare it with a traditional TPB model, such comparison has been tested by

176 considering the first model as a nested model of the second. Hence, in the traditional model the

177 regression weights of the paths between additional factors and intention and behaviour have been

178 fixed to 0. To accept the extended TPB model, the hypothesized significant differences in the Chi-

179 square value have been analysed: if the Chi-square difference ($\Delta\chi^2$) is significant, the extended

180 model (the larger model with more parameters and less degrees of freedom) can be accepted as a

181 better model than the traditional model (the smaller one).

182

183 **Results**

184 Before analyzing the proposed extended TPB model, we report some sample descriptive statistics in

185 Table 1. In order to elicit the frequency of their purchasing at SFSCs (BEH), respondents had to

186 answer the following question: "*How often do you usually buy in local Short Food Supply Chains*

187 *(SFSCs)?*" (see Table 2).

188

189 **Table 1 - Sample descriptive statistics**

Categories	Items	N. Obs.

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[1] To consider the model having an acceptable fit we refer to cut-off values of .90 or more for CFI and TLI (Bentler, 1990; Tucker and Lewis, 1973) whereas the threshold value for RMSEA is of .05 or less (Browne and Cudeck, 1992). In addition, values less than .08 of Standardized Root Mean Squared Residual (SRMR) are considered acceptable (Hu and Bentler, 1999). In relation to χ^2, it is worth considering values having a probability of more than .05; however, we consider some other indices too, since this index tends to be deeply affected by sample size (Barbaranelli, 2007).

Gender	*female*	143
	male	117
Age (years)	*18-30*	133
	31-40	65
	41-50	32
	51-65	26
	more than 65	4
Nationality	*italian*	256
	other	4
Education level	*primary school*	1
	lower secondary school	13
	upper secondary school	79
	university degree	167
Residential area	*urban*	186
	rural	74
N. of household members	*1*	28
	2	48
	3	56
	4	97
	5 or more	31
Average year income (€)	*less than 25.000€*	100
	25.000-50.000€	120
	50.000-75.000€	27
	more than 75.000€	13
Occupation	*student*	102
	employee	136
	retired worker	6
	unemployee	16
To go personally grocery shopping	*no*	101
	yes	159
Buying organic	*no*	72
	yes	188
Buying fair trade	*no*	131
	yes	129
Most frequently used forms of SFSCs	*on farm direct sale*	112
	farmers' market	119
	pick-your-own	7
	box schemes	7
	Solidarity Purchasing Groups	10
	online sale	5

Table 2 - Consumers' annual SFSCs purchasing frequency (BEH)

Question (BEH)	Items	N. Obs.
How often do you usually buy in local Short Food Supply Chains (SFSCs)?	*(1)* once a year	51
	(2) more than once a year	56
	(3) once a month	24
	(4) more than once a month	51
	(5) once a week	51
	(6) more than once a week	27

As afore mentioned, all the variables of the extended model have been measured by means of three items each. Table 3 shows variables related descriptive statistics and the Cronbach's α[2] reliability coefficient, whose high values indicate an high internal consistency of the items.

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[2] According to Ajzen, we indicated 0.7 to be an acceptable reliability coefficient.

Table 3 - TPB variables' scales and descriptive statistics

Variables (scales)	No. items	Cronbach's α
Attitudes (ATT)	3	0.91
Subjective Norms (SN)	3	0.91
Perceived Behavioural Control (PBC)	3	0.73
Trust (TRUST)	3	0.92
Intention (INT)	3	0.91

198

199 Table 4 reports the correlations among the investigated variables and also their mean and standard

200 deviation. According to correlations, INT shows the strongest positive correlation with PBC and

201 trust, while intention and PBC are the strongest correlates of BEH. In addition, all mean values are

202 clearly above the scale mean (on a 1-7 point scale), showing that the interviewees boast highly

203 positive attitude (5.28), subjective norms (4.67), trust (5.37), and intention (4.78) towards

204 purchasing in such investigated alternative markets. However, the mean value for PBC is lower

205 (4.48), compared to other variables, showing a lower respondents' self-confidence to engage in

206 SFSCs-related purchase, despite their high and positive attitude and trust (Al-Swidi et al., 2014).

207

208 **Table 4 - Correlations and descriptive findings between variables**

	1.	2	3	4	5	6	7	8
1. INT	4.78 (1.50)							
2. ATT	0.323**	5.28 (1.56)						
3. SN	0.410**	0.168**	4.67 (1.55)					
4. PBC	0.482**	0.142*	0.272**	4.48 (1.35)				
5. TRUST	0.476**	0.342**	0.401**	0.385**	5.37 (1.11)			
6. BEH	0.578**	0.294**	0.229**	0.379**	0.255**	3.29 (1.69)		
7. RESID	-0.003	0.262**	-0.028	0.028	0.073	0.088	0.28 (0.45)	
8. FAIRTRADE	0.242**	0.102	0.210**	0.091	0.261**	0.248**	0.005	0.50 (0.50)

209 *Note: Mean (Standard Deviation) for each variable on the diagonal*

210

211 To test the construct validity, the measurement factor analysis model included seven latent factors

212 indicating ATT, PBC, SN, INT, TRUST, RESID and FAIRTRADE. Goodness-of-fit statistics for

213 this measurement model are acceptable (χ^2 = 170.94, df = 110, p < 0.001; RMSEA = 0.05; CFI =

214 0.98; TLI = 0.97; SRMR = 0.04). As showed in Table 5, the standardized parameter estimates are

215 all significant and present higher values (from 0.62 to 0.94).

216

217 **Table 5 - Study measurements**

Measures	Standardized factor loading
INT	
I intend to purchase food at SFSCs for the next month.	0.89
I plan to purchase food at SFSCs next month.	0.83
I am willing to buy food at SFSCs next month.	0.93

ATT

Purchasing food at SFSCs is not gratifying – gratifying.	0.88
Purchasing food at SFSCs is unpleasant – pleasant to me.	0.93
Purchasing food at SFSCs is not satisfying – satisfying to me.	0.84

SN

Most people who are important to me would approve on my purchasing food at SFSCs instead of conventional markets.	0.77
Most people who are important to me want that I purchase food at SFSCs instead of conventional markets.	0.94
Most people who are important to me think that I should purchase food at SFSCs instead of conventional markets.	0.84

PBC

Purchasing food at SFSCs is easy to me.	0.62
If I wanted to I could easily purchase food at SFSCs.	0.71
Purchasing food at SFSCs depends entirely on me.	0.72

TRUST

I perceive purchasing at SFSCs to be reliable.	0.83
Purchasing at SFSCs appears trustable to me.	0.91
I trust in purchasing food at SFSCs.	0.93

RESID

Which is your residential area? (urban/rural)	Fixed to 0

FAIR-TRADE

Do you usually buy fair-trade products? (yes/no)	Fixed to 0

BEH

How often do you usually buy at local Short Food Supply Chains (SFSCs)?	Fixed to 0

218

219 The traditional TPB model (i.e., the one that does not consider trust as antecedent of the intention

220 and RESID and FAIRTRADE as predictors of behaviour) shows the following good fit to the data:

221 $\chi^2 = 35.46$, df = 8, p < 0.001; RMSEA = 0.12; CFI = 0.98; TLI = 0.82; SRMR = 0.05. Findings

222 indicate significant effects (p < 0.001) of ATT ($\beta = 0.23$), SN ($\beta = 0.27$) and PBC ($\beta = 0.38$) on

223 consumer intention to buy at SFSCs; in addition, both the intention ($\beta = .51$; $p < .001$) and PBC ($\beta = $

224 .13; $p < 0.05$), show a considerable predictive power on the behaviour. Overall, 36.5% and 34.7%

225 of INT and BEH variance is explained by this model, respectively.

226 However, all the Goodness-of-fit statistics highlight that the extended TPB model fits the data better

227 than the traditional one. Accordingly, $\chi^2 = 14.19$, df = 5, p < 0.01; RMSEA = 0.08;. CFI = 0.96; TLI

228 = 0.90; SRMR = 0.03. Overall, 39.5% and 36.4% of INT and BEH variance is explained by our

229 expanded TPB model, respectively. Standardized results show that ATT, SN, PBC and TRUST are

230 all significant positive antecedents of intention; in particular, PBC represents the main predictor of

231 INT ($\beta = 0.32$; $p < 0.001$), followed by TRUST ($\beta = 0.21$; $p < 0.001$), SN ($\beta = 0.21$; $p < 0.001$) and

ATT (β = 0.17; p < .001), as shown in Figure 1. Furthermore, the behaviour is significantly determined by the intention (β = 0.49; p < 0.001), followed by PBC (β = 0.13; p < 0.01), fair-trade consumption habit (β = 0.12; p < 0.05) and the residential area (β = 0.12; p < 0.10). Results show that the Chi-square difference value between the traditional TPB model and the extended TPB model is significant ($\Delta\chi^2$= 21.27; df= 3; p < 0.001), thus the extended model is found to be significantly better than the traditional one.

Fig. 1 – Path model with standardized regression coefficients

***p<0.01; **p<0.05; *p<0.1
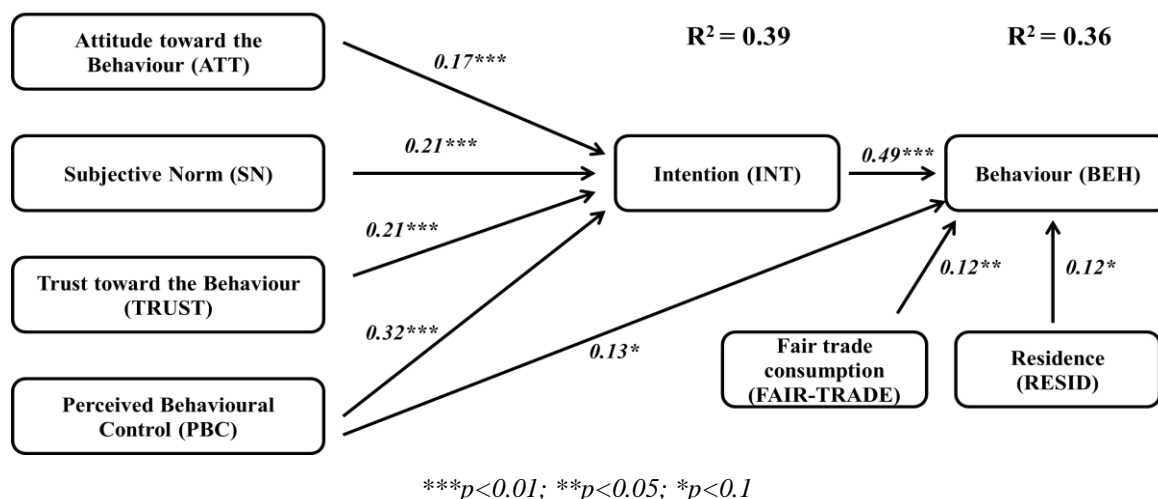
Conclusion and Discussion

In order to contribute to explain the reasons why short food supply chains have largely gained ground in Italy in recent years, this paper aims at testing an extended framework of the Theory of Planned Behaviour in order to explain food purchases at SFSCs (e.g. farmers' market). In particular, this study scrutinizes the role of consumer trust. To this purpose, an online questionnaire administered to a convenience sample of Italian consumers assessed standard TPB variables (e.g. attitudes, subjective norms, perceived behavioural control, intention) and the additional trust with respect to buying food at SFSCs. Results show that TPB framework can be considered as a useful framework to understand the investigated behaviour, and especially to explain the intention that drives it.

Compared to the original TPB framework (that does not consider trust as an antecedent of intention), the extended model shows better goodness-of-fit statistics. All the investigated variables, as attitudes, subjective norms, perceived behavioural control and trust, reveal a positive effect on intention, explaining 48% of its variance. In particular, perceived behavioural control has the largest effect on intention, followed by trust. It follows that the easier for consumers to shop at SFSCs and the higher their trust,, the higher their intention; similarly, the more consumers' attitudes are

9

positive towards SFSCs and people who are important to them (i.e. social referents as family, friends) approve that they purchase in such alternative agri-food networks, the more consumers' intention to perform it will increase. Furthermore, intention has a good predictive effect on consumer behaviour, in line with what assessed by Kim et al. (2003) on dairy product consumption, whereas it is minor than what found by Verbeke and Vackier (2005) in fish consumption. Also perceived behavioural control is found to have a direct effect on behaviour. Furthermore, consumer trust has no direct effect on consumer actual purchase, thus intention mediates its effect on behaviour. In addition to intention and PBC, purchasing fair-trade products and living in a rural area positively influence consumers' purchase at SFSCs, explaining 36% of the behavioural variance. Although the explained variance related to behaviour proves to be minor than for intention, this is also in line with the previously cited literature related to TPB application to food consumption (Ajzen, 2015). In relation to fair-trade consumption, our findings confirm the strong connection between consumers involvement and active participation in different forms of SFSCs and the sustainable dimensions of their ethical consumerism (Grunert et al., 2014).

Based on our evidences, consumer trust is relevant when deciding where to buy food and we can suppose that it might lead to positive behavioural effects when it exists. According to Holloway and Kneafsey (2000), following these findings it is possible to assume that, by reinforcing consumer trust towards SFSCs, people intention to purchase in such alternative networks will also increase, encouraging their development in line with current sustainable trajectories of European Union for the agrifood sector. As stated by many authors (Marsden et al., 2000; Trobe, 2001; Hunt, 2007; Schneider, 2008; Meyer et al., 2012), trust can be established and reinforced through SFSCs' direct encounters between producers and consumers, that facilitate the information exchange. Central to these alternative networks are face-to-face interactions that, indeed, let consumers being more informed and consequently more trusting (e.g., about food and production process), increasing transparency along the food chain and reducing asymmetric information. Since trust tends to offset negative perceptions associated with food purchasing decision (Ding et al. 2015), it might drive loyalty and new solid relationships between producers and consumers (Hartmann et al., 2015), overcoming consumer confusion and fostering SFSCs purchasing frequency and development.

Interestingly, in line with the literature on SFSCs, it is plausible to assume that such alternative chains can successfully overtake modern consumer loss of confidence in food provision systems; however, we have found trust reliability being very high and this seems to be a controversial aspect, especially in case of high risks (e.g. food quality scares and scandals).

Although findings cannot be generalized, since the study has been conducted on Italian consumers and on a consumers' sample that was not representative of the entire population, they provide some

novel contributions to the actual scientific debate on the role of trust in food choice and consumer behaviour, in particular focusing on short food supply chains related preference. Further research may be conducted to better scrutinize the role of trust by investigating, on a more representative sample, the link between trust and behaviour, in order to suggest a way to overcome the existing gap between intention and behaviour, as suggested by Armitage and Conner (2001).

References

Ajzen, I. (1991). The Theory of Planned Behavior. *Organizational Behavior and Human Decision Process*, 50, 179-211.

Ajzen, I. (2015). Consumer attitudes and behaviour: the theory of planned behaviour applied to food consumption decisions. *Rivista di Economia Agraria*, 70(2), 121-138.

Al-Swidi, A., Mohammed Rafiul Huque, S., Haroon Hafeez, M., Noor Mohd Shariff, M. (2014). The role of subjective norms in theory of planned behavior in the context of organic food consumption. *British Food Journal*, 116(10), 1561-1580.

Armitage, C.J., Conner, M. (2001). Efficacy of the theory of planned behaviour: a meta-analytic review. *British Journal of Social Psychology*, 40, 471-499.

Banterle, A., Cavaliere, A. Ricci, E.C. (2012). Food Labelled Information: An Empirical Analysis of Consumer Preferences. *International Journal on Food System Dynamics*, 3(2), 156-170.

Barbaranelli, C. (2007). Analisi dei dati. Tecniche multivariate per la ricerca psicologica e sociale. Milano: Led.

Bentler, P.M. (1990). Comparative fit indexes in structural models. *Psychological Bulletin*, 107, 238-246.

Browne, M.W., Cudeck, R. (1992). Alternative ways of assessing model fit. *Sociological Methods Research*, 21, 230-258.

Carfora, V., Caso, D., Conner, M. (2016). The role of self-identity in predicting fruit and vegetable intake. *Appetite*, 106, 23-29.

Cook, A.J., Kerr, G.N., Moore, K. (2002). Attitudes and intentions towards purchasing GM food. *Journal of Economic Psychology*, 23, 557-572.

Ding, Y., Veeman, M.M., Adamowicz, W.L. (2015). Functional food choices: Impacts of trust and health control beliefs on Canadian consumers' choices of canola oil. *Food Policy*, 52, 92-98.

DuPuis, E.M. (2000). Not in my body: BGH and the rise of organic milk. *Agriculture and Human Values*, 17, 285-295.

326   Forbes, S.L., Cohen, D.A., Cullen, R., Wratten, S.D., Fountain, J. (2009). Consumer attitudes

327   regarding environmentally sustainable wine: an exploratory study of the New Zealand

328   marketplace. *Journal of Cleaner Production*, 17(13), 1195-1199.

329   Forssell, S., Lankoski, L. (2015). The sustainability promise of alternative food networks: an

330   examination through "alternative" characteristics. *Agriculture and Human Values*, 32(1), 63-75.

331   Frewer, L.J., Howard, J.C., Hedderley, D., Shepherd, R. (1996). What Determines Trust in

332   Information About Food-Related Risks? Underlying Psychological Constructs. *Risk Analysis*,

333   16(4), 473-486.

334   Giampietri, E., Finco, A., Del Giudice, T. (2015). Exploring consumers' attitude towards

335   purchasing in short food supply chains. *Quality - Access to Success*, 16(1), 135-141.

336   Giampietri, E., Koemle, D., Yu, X., Finco, A. (2016a). Consumers' Sense of Farmers' Markets:

337   Tasting Sustainability or Just Purchasing Food?. *Sustainability*, 8(11), 1157.

338   Giampietri, E., Finco, A., Del Giudice, T. (2016b). Exploring consumers' behaviour towards

339   short food supply chains. *British Food Journal*, 118(3), 618 - 631.

340   Goodman, D. (2004). Rural Europe Redux? Reflections on Alternative Agro-Food Networks and

341   Paradigm Change. *Sociologia Ruralis*, 44 (1), 3-16.

342   Grebitus, C., Steiner, B., Veeman, M. (2015). The roles of human values and generalized trust on

343   stated preferences when food is labeled with environmental footprints: Insights from Germany.

344   *Food Policy*, 52, 84–91.

345   Grunert, K.G. (2005). Food quality and safety: consumer perception and demand. *European*

346   *Review of Agricultural Economics*, 32(3), 369-391.

347   Grunert, K. G., Hieke, S., Wills, J. (2014). Sustainability labels on food products: consumer

348   motivation, understanding and use. *Food Policy*, 44, 177-189.

349   Hartmann, M., Klink, J., Simons, J. (2015). Cause related marketing in the German retail sector:

350   Exploring the role of consumers' trust. *Food Policy*, 52, 108-114.

351   Hobbs, J.E., Goddard, E. (2015). Consumers and trust. *Food Policy*, 52, 71–74.

352   Holloway, L., Kneafsey, M. (2000). Reading the Space of the Framers' Market: A Case Study

353   from the United Kingdom. *Sociologia Ruralis*, 40, 285–299.

354   Hu, L., Bentler, P.M. (1999). Cutoff criteria for fit indexes in covariance structure analysis:

355   Conventional criteria versus new alternatives. *Structural Equation Modeling: a Multidisciplinary*

356   *Journal*, 6(1), 1-55.

357   Hunt, A.R. (2007). Consumer interactions and influences on farmers' market vendors.

358   *Renewable Agriculture and Food Systems*, 22, 54-66.

Ilbery, B., Maye, D. (2005). Food supply chains and sustainability: evidence from specialist food producers in the Scottish/English borders. *Land Use Policy*, 22(4), 331-344.

Kim, K., Reicks, M., Sjoberg, S. (2003). Applying the theory of planned behavior to predict dairy product consumption by older adults. *Journal of Nutrition Education and Behavior*, 35(6), 294-301.

Kirwan, J. (2004). Alternative strategies in the UK agro-food system: interrogating the alterity of farmers' markets. *Sociologia Ruralis*, 44(4), 395-415.

Kirwan, J. (2006). The interpersonal world of direct marketing: Examining conventions of quality at UK farmers' markets. *Journal of Rural Studies,* 22, 301-312.

Kneafsey, M., Venn, L., Schmutz, U., Balázs, B., Trenchard, L., Eyden-Wood, T., Bos, E., Sutton, G., Blackett, M. (2013). Short Food Supply Chains and Local Food Systems in the EU. A State of Play of their Socio-Economic Characteristics, Ipts-Jrc Report, EUR 25911. Available on line at: http://ftp.jrc.es/EURdoc/JRC80420.pdf. ISBN 978-92-79-29288-0. doi:10.2791/88784.

Lassoued, R., Hobbs, J.E. (2015). Consumer confidence in credence attributes: The role of brand trust. *Food Policy*, 52, 99-107.

Lobb, A.E., Mazzocchi, M., Traill, W.B. (2007). Modelling risk perception and trust in food safety information within the Theory of Planned Behaviour, *Food Quality and Preference*, 18, 384-395.

Louis, W., Davies, S., Smith, J., Terry, D. (2007). Pizza and pop and the student identity: the role of referent group norms in healthy and unhealthy eating. *The Journal of Social Psychology*, 147, 57-74.

Marino, D., Cicatiello, C. (2012). I Farmers' Market: La Mano Visibile del Mercato. Aspetti Economici, Sociali e Ambientali delle Filiere Corte; Franco Angeli: Milan, Italy.

Marsden, T., Banks, J., Bristow, G. (2000). Food Supply Chain Approaches: exploring their Role in Rural Development. *Sociologia Ruralis*, 40(4), 424-438.

Mazzocchi, M., Lobb, A., Traill, W.B., Cavicchi, A. (2008). Food scares and trust: a European study. *Journal of Agricultural Economics*, 59(1), 2-24.

Meyer, S.B., Coveney, J., Henderson, J., Ward, P.R., Taylor, A.W. (2012). Reconnecting Australian consumers and producers: identifying problems of distrust. *Food Policy*, 37(6), 634-640.

Migliore, G., Schifani, G., Cembalo, L. (2015). Opening the black box of food quality in the short supply chains: effects of conventions of quality on consumer choice. *Food Quality and Preference*, 39, 141-146.

392   Mundler, P., Laughrea, S. (2016). The contributions of short food supply chains to territorial
393   development: A study of three Quebec territories. *Journal of Rural Studies*, 45, 218-229.

394   O'Kane, G., Wijaya, S.Y. (2015). Contribution of Farmers' Markets to More Socially
395   Sustainable Food Systems: A Pilot Study of a Farmers' Market in the Australian Capital
396   Territory (ACT), Australia. *Agroecology and Sustainable Food Systems*, 39, 1124-1153.

397   Parker, G. (2005). Sustainable Food? Teikei, Co-Operatives and Food Citizenship in Japan and
398   the UK; University of Reading: Reading, UK.

399   Renting, H., Marsden, T. K., Banks, J. (2003). Understanding alternative food networks:
400   exploring the role of short food supply chains in rural development. *Environment and Planning*,
401   35(3), 393-411.

402   Schneider, S., (2008). Good, Clean, Fair: The Rhetoric of the Slow Food Movement. *College*
403   *English*, 70, 384-402.

404   Smith, J.R., Terry, D.J., Manstead, A.S., Louis, W.R., Kotterman, D., Wolfs, J. (2008). The
405   attitude-behavior relationship in consumer conduct: the role of norms, past behavior, and self-
406   identity. *The Journal of Social Psychology*, 148, 311-334.

407   Thorsøe, M., Kjeldsen, C. (2016). The Constitution of Trust: Function, Configuration and
408   Generation of Trust in Alternative Food Networks. *Sociologia Ruralis*, 56, 157–175.

409   Toler, S., Briggeman, B.C., Lusk, J. L., Adams, D.C. (2009). Fairness, farmers markets, and
410   local production. *American Journal of Agricultural Economics*, 91(5), 1272-1278.

411   Tregear, A. (2011). Progressing knowledge in alternative and local food networks: Critical
412   reflections and a research agenda. Journal of Rural Studies, Subjecting the Objective-
413   Participation, *Sustainability and Agroecological Research*, 27, 419-430.

414   Trobe, H.L. (2001). Farmers' markets: consuming local rural produce. *International Journal of*
415   *Consumer Studies*, 25, 181-192.

416   Tucker, L.R., Lewis, C. (1973). A reliability coefficient for maximum likelihood factor analysis,
417   *Psychometria*, 38, 1-10.

418   Verbeke, W., Vackier, I. (2005). Individual determinants of fish consumption: application of the
419   theory of planned behavior. *Appetite*, 44(1), 67-82.