# 1 SHORT FOOD SUPPLY CHAINS FOR LOCAL FOOD: A DIFFICULT PATH

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# 15 ABSTRACT

16 Agri-food globalisation is having a serious adverse impact on small and medium-sized family farms in 17 the province of Málaga (southern Spain), 43% of which have disappeared over the last 10 years. Short 18 food supply chains are emerging as a potential option for this type of farm, but as a strategy it is 19 apparently not being implemented strongly enough over the region as a whole. The present case study 20 sought to explore the initiatives carried out by local producers to date in implementing short food 21 supply chains throughout the province and to examine, from the standpoint of the production sector, the constraints hindering its development and the strategies currently being adopted with a view to 22 23 addressing them. The analyses carried out under local producers perspective shows us that although short food supply chains are interesting for family farms, in terms of prices, economic profit and social 24 25 recognition, the abilities and capacities these channels require to producers, jointly with technical, flexibility and time demands, make these channels to be not that successful and attractive. Small 26 27 producers interested in short food supply chains must be aware of the special importance of social 28 linkages and the need to take care of them; as well as of the need of establishing synergies and 29 cooperation with other producers and stakeholders, in order to facilitate the tasks associated and that

30 not every food product suit short food supply chains.

### 31 KEYWORDS

32 short food supply chains, local producers, constraints, small producers marketing.

### 33 HIGHLIGHTS

- 34 Short supply chains of local food is regarded as a viable alternative for small and medium-sized farms
- 35 in the province of Málaga, but their development is being constrained by a number of difficulties.
- 36 Farms marketing their produce through short supply chains are creating hybrid food spaces.

37 There is a dilemma between the need to expand or diversify the supply chains in order to guarantee

38 the viability of local farms and the need to dedicate important efforts to stabilize each short supply

39 chain.

# 40 INTRODUCTION

41 The province of Málaga (southern Spain), has a population of nearly 1.6 million. Attracted by its 175 42 km of coastline and its 26 protected nature reserves, 1.8 million tourists visit the province every year 43 (IECA, 2014; INE, ). One feature that has been boosted with a view to strengthening the tourist sector is local cuisine, based on traditional recipes and local food; these are showcased in a number of local 44 food fairs and festivals, including the Málaga Goat Festival in Casabermeja; the Perota Soup Day in 45 46 Álora, and the Handmade Cheese Fair in Teba. A number of public and/or private initiatives have also 47 been launched, among them the Km0 Gastro Club, Carta Malacitana, the Spanish Association of Málaga 48 Goat Breeders, Guadalhorce Tourism and Sabor a Málaga. One might reasonably expect that this 49 potential food demand, coupled with the drive to support local cuisine, would favour local agri-food 50 development in a province with 313,000 hectares of arable land (MADECA 2014) and 739,00 head of cattle (JA, 2014). Yet 43% of small and medium-sized farms in this province have gone out of business 51 52 over the last ten years (INE, 2014). 53 Málaga is not the only province affected. According to reports and statistics published by the European 54 Commission, the number of farms in the EU-27 fell by 25% between 2000 and 2010; 98% were small

55 farms (Forti and Henrard, 2014).

56 This process can be attributed, in many cases, to the absorption and concentration of food supply

57 chains by multinational companies (Segrelles, 2010), and to the strategic role of these companies as

58 intermediaries between producer and consumer: supply requirements or prices and payment terms

59 difficult to face by small and medium size farms (García and Rivera, 2007; MAGRAMA, 2006, 2010). In

60 2015, for example, 73,7% of food purchases by Spanish households were made in supermarkets,

61 hypermarkets and discount stores (MAGRAMA, 2016); the five major operators in this sector

62 accounted for 50,4% of market share (Reyes, 2016). In this scheme, "conventional" food supply chains

63 are drowning the small and medium producers.

64

65

Alternatives put forward to improve the sustainability of small and medium-sized farms have focussed
on two major lines: redesign of farms using new multifunctional models (Renting et al., 2008); and
innovative forms of marketing (Hendrickson and Hefferman, 2002; Renting et al., 2003; Venn et al.,
2006; Chiffoleau, 2009; Day-Farnsworth et al., 2009; King et al., 2010), related to a certain degree of
differentiation on the basis of the production process, the provenance and quality of the produce
(Diamond and Barham, 2011), and the establishment of closer relationships with local or distant
consumer communities.

73

74 As various authors have reported, consumers are increasingly aware that local food tends to be of 75 higher quality, more natural, fresher and tastier, and also contributes both to the economy of rural

- 76 areas and to their environmental sustainability, thus improving the welfare of farmers and farming
- communities (Guptill and Wilkins, 2002; Winter, 2003; Born and Purcell, 2006; Kneafsey et al., 2013).

78 This has led to constant growth in the number of consumers seeking more sustainable neighbourhood 79 models which enable them to buy local food and in doing so support local farmers (Pérez and Vázquez,

80 2008; Adams and Salois, 2010; Calle et al., 2012; Focus Group SFSCM, 2014).

81

82 In this respect, short food supply chains (henceforth SFSCs), in their various guises, may provide an 83 economic solution to the gradual decline in the purchasing power of small and medium-sized farms

84 and thus, in the last analysis, improve their sustainability. However,

85 and despite the favourable context for the development of SFSCs in the province where this case study

86 was performed, the attempts made so far to implement SFSCs have failed to build up a market 87 sufficiently large to improve the sustainability and continuity of the vast majority of small and medium-

88 sized farms.

89 The present study sought to examine why SFSCs are not answering to small and medium sized farms

90 sustainability problem as far as they were expected. Three different aspects of this situation, from the 91 perspective of the production sector interested in these potential alternative chains, have been

92 analysed. First, the configuration of existing SFSCs across the province, secondly, the obstacles

93 encountered by small and medium-sized initiatives when attempting to implement these SFSCs, which

94 may be hindering their adoption and; thirdly, to identify some learnings that could help to address 95 these constraints.

96

# 97 ABOUT THE CONCEPT OF LOCAL FOOD AND SHORT FOOD SUPPLY CHAINS

98 There are no single, clear definitions of what constitutes local food, or indeed SFSCs, applicable to all 99 the many production, processing, marketing and distribution systems to be found at present (ENRD, 100 2012). Three different approaches have been used to develop a theoretical definition of what is "local". 101 According to the first approach, the term "local" can be applied to food produced, processed, 102 marketed and consumed within a circumscribed geographical area (Morris and Buller, 2003). There 103 appears to be no clear limit to this area, nor has there been any attempt to reconcile the various views 104 in national or EU legislation; instead, limits appear to be dictated by context (Jones et al., 2004). In France, for example, the maximum distance is often set at 50 miles, whereas for United Kingdom 105 farmers' markets it is reduced to 30 miles (Focus Group SFSCM, 2014). When applied to conventional 106 107 distribution, the geographical concept of "local" also varies considerably, covering anything from 108 regions to whole countries (Abatekassa and Peterson, 2011).

109 A second approach links the idea of "local" to a distinctive value and quality associated with a given 110 geographical area (Murdoch et al., 2000; Barham, 2003; Renting et al., 2003). The geographical origin 111 of a product is thus taken as a guarantee, primarily of certain distinctive features linked to that origin, 112 due to the biophysical attributes of the region, to the raising there of native breeds or varieties, or to 113 the use of traditional production processes (Abatekassa and Peterson, 2011; Cuéllar and Castillo, 2015). Examples include Protected Geographical Indications-such as "Chivo Lechal malagueño" 114 [Malaga Suckling Goat] and "Sabor a Málaga" [Taste of Málaga] and, more particularly, Protected 115 116 Designations of Origin.

117 The third approach focusses on environmental, social and cultural aspects of local foods. Here,

118 geographical distance, administrative limits and specific quality attributes are subordinated to an 119 emphasis on linkages and networks within a given community, on the development of 120 agroecologically-friendly production and marketing practices and on the establishment of more

horizontal relationships between stakeholders (O'Hara and Stagl, 2001; Jones et al., 2004; Ilbery and

122 Maye, 2005; Feagan, 2007). This adoption of horizontal mechanisms, coupled with closer personal 123 involvement, leads to new ways of generating trust, such as participatory guarantee systems (Cuéllar

involvement, leads to new ways of generating trust, such as participatory guarantee systems (Cuéllarand Calle. 2011).

125 The conceptual framework governing SFSCs is highly diverse, not only in terms of forms of organisation 126 and sales techniques but also in terms of the internal social processes driving these channels and their 127 immensely varied socioeconomic, ecological and territorial ramifications.

128 Most authors appear to agree that neither the number of middlemen nor the distance between producer and consumer are critical to a definition of a short supply chain (Marsden et al., 2000). 129 Indeed, there appears to be no consensus regarding the number of intermediaries, although it is 130 certainly assumed that SFSCs operate with fewer middlemen than "conventional" supply chains. Some 131 132 authors thus provide no maximum number (Renting et al., 2003; Marsden et al., 2000), while others 133 suggest that the number should be "minimal" or, ideally, nil (Ilbery and Maye, 2005). The definition of "circuit court" provided in 2009 by the French Ministry of Agriculture includes just one intermediary 134 135 between producer and consumer (e.g. shop, restaurant, school canteen). Processors (e.g. 136 slaughterhouses, oil-mills, etc.) are regarded not as intermediaries but as service providers (Kneafsey et al., 2013). 137

Marsden et al. (2000) and the authors of later studies (Renting et al., 2003; Soler and Calle, 2010; Focus 138 139 Group SFSCM, 2014) stress that a key characteristic of the new SFSCs and the difference between 140 "conventional" ones is their capacity to re-socialise or respatialise food. Food reaches the consumer 141 embedded with information on the food itself, the production methods employed and the people involved. Such foods are commonly defined by the locality or even the specific farm where they are 142 produced. Another major feature is the emphasis on building relations of trust and transparency 143 between the actors in the chain, and especially between producer and consumer. This "allows the 144 consumer to make value-judgements about the relative desirability of foods on the basis of their own 145 knowledge, experience or perceived imagery" (Marsden et al., 2000 p.2). Thus "shortening" the supply 146 147 chain is not just a question of physical distance or the number of agents involved, but also, 148 fundamentally, a question of building shared values and trust in regional quality and/or environmental 149 sustainability, and of the organisational and cultural conditions established in trading.

For other authors, including Sevilla et al. (2012), the main issue, apart from the physical shortening of the distance travelled by the food product, is that of practically and actively redefining the power relationships between the agents involved. The aim should be to empower producers and consumers, and bring them closer together as part of a win-win strategy. This consideration places much tighter limits on the kinds of supply chains employed, since local brands and Designations of Origin do not entail the redefining of these parameters.

156

157 In this research, in order to select the initiatives through which we were going to identify the difficulties 158 that small and medium sized farms face when developing SFSC, we established criteria that were 159 readily identifiable prior to in-depth analysis of individual experiences: a. physical proximity,

establishing the boundaries of local at the administrative demarcation of the province (in this case the

161 province of Malaga); b. marketing approach defined in terms of both number of intermediaries

**Comentado [A1]:** The term Value Chains is being applied to this concept. Attention to this term and some analysis may help compare and contrast this term/approach with the SFSC approach discussed in this paper. 162 (maximum of one) and geographical proximity (production, processing and sale within the province of163 Málaga).

# 164 **METHODOLOGY**

165 A method based on structural analysis was used in order to achieve these aims, drawing on a case 166 study. The idea was to obtain and process information on the problem, taking into account the

- knowledge, visions and social structures (Alberich, 2002; Cuéllar and Calle, 2011) of the actors involved
  in the production and marketing of local food in the province of Málaga.
- 169 Research was carried out in several stages. Experiments by producers in implementing short supply
- chains in the province were mapped, using primary and secondary sources, and after the criteriaalready defined.

172 The study focussed on three sectors—meat, dairy and fruit and vegetable. Meat and dairy sectors were

173 chosen because of the funding source interests (a producers cooperative network). And the fruit and

vegetable sector was chosen partly because it is the sector which has launched most SFSC initiatives in

- the province, and partly because it employs highly-innovative processes, and was thus able to provideother perspectives and experiences.
- 177 A total of 24 initiatives were studied (see figure 1), accounting for almost 500 local farmers, i.e. 1.9%
- 178 of the province's farms according to data published by the Spanish National Institute of Statistics 179 (2009).
- 180 Figure 1.- Producers initiatives on SFSC studied
- 181

182 The mapping process included also systematisation of initiatives sponsored by the public 183 administration and/or partner bodies with a view to helping the production sector to market produce 184 through SFSCs. A total of 8 initiatives were included from this group.

Finally, interviews were carried out with a total of 13 key bodies—10 producers, 1 online shop and 2 public administration and/or partner bodies—selected with a view to representing the broadest possible range of organisational structures and SFSCs implemented by the production sector. A

- 188 detailed description of the cases studied can be found in table 1.
- 189
- 190 Table 1.- Key informants interviewed profile

# 191 SYSTEMATIZATION OF SFSCs IMPLEMENTED IN THE PROVINCE OF MALAGA UNDER A 192 PRODUCERS PERSPECTIVE

193 The SFSCs mapped in the province of Malaga varied considerably in terms of configuration, a finding 194 also reported by other authors both for Andalusia (Soler and Calle, 2010; González et al., 2012; Sevilla et al., 2012) and for Europe as a whole (Karner, 2010; ENRD, 2012; Kneafsey et al., 2013). The primary 195 distinction in terms of the type of channel used was between "direct" and "indirect" channels. "Direct" 196 197 channels include those in which the food is sold from the producer straight to the consumer, through 198 consumer groups, farmers' markets and fairs, producers' on-farm shops—individual or collective—or 199 at the processing site, as well as online orders with home delivery or delivery to pick-up points. 200 "Indirect" channels are those in which food is sold through an intermediary. It may include other

201 producers, physical shops (independent shops or chain stores), the hotel and catering sector or online

202 shops/platforms managed by other agents representing producer groups or product-based groups.

203 Figure 2. Description of SFSCs by type of channel implemented.

### 204

The main interesting findings while making the map were the following. First, we identified that some 205 of the criteria used by a number of author to classify SFSC -- among them Renting et al. (2003), Venn 206 et al. (2006), González et al. (2012) and Kneafsey (2013)-are scarcely explicative under a producers 207 208 perspective. Criteria such as the relationship between consumers and producers and the role of this 209 relationship in constructing value and meaning or community, for example. Although important to 210 analyze, from the perspective of producer-driven initiatives, a given channel may encompass various 211 forms of participation, various kinds of relationships with the consumer and differences in the 212 construction of value. Moreover, these may be developed in other spaces, and thus to some extent 213 cease to be tied to the actual food purchase. Thus, although there may be some match between the 214 SFSC used and a given type of producer/consumer relationship and value construction, the degree of cooperation and collective interaction within a given channel may vary considerably, depending on the 215 stakeholders and the relational spaces involved rather than on the channel chosen. 216

217

# 218

### 219 Second,

this classification helps to identify the various options open to the producer, who normally develop more than one of them. Several combinations are possible and, in most cases, single producers/organisations need to implement a number of different short supply chains in order to sell the whole production.

Thirdly, some organisations make simultaneous use of SFSCs and other channels, giving rise to what
Ilbery and Maye (2006) and López et al. (2015) term "hybrid strategies".

Authors found that producers and organisations producing large volumes but with limited diversification still tend to opt for non SFSC. Even so, they have a very positive view of SFSCs, which they regard as favouring proximity with the consumer and generating added value.

229 Small producers with diversified output and/or links to other groups display a clear preference for

SFSCs. Similar findings have been reported by López et al. (2015) for the marketing of organic produce
 in Extremadura and Madrid. Farmers and organisations producing medium volumes tend to adopt
 hybrid strategies: those producing a limit range of products and not tending to associate with other
 groups with a view to diversification are more interested in opening/expanding conventional supply

chains, whereas those with more diversified output generally opt to strengthen existing SFSCs.

Fourth, we have identified 5 factors that determine several different chain configurations which facilitate adaptation to producers, that is, in a same SFSC model, different configurations related to

these factors can be found: a) use of own and shared resources (tangible and intangible); b) the

238 functions to be assumed; c) the motivations of the participant producers ; d) the kind of relationship

239 sought; and e) the values to be transmitted.

**Comentado [A2]:** It appears that an attempt is being made to somehow equate direct and indirect in terms of SFSC. Clearly a direct channel is short but indirect can have 1 (by author definition SFSC) or many intermediaries, so 1<sup>m</sup> not sure of the value of this line of analysis to central premise of the paper. Instead of offering clarity it adds more confusion. NO SE HA ENTERADO...

**Comentado [A3]:** No definition of conventional channels is provided? Are we to assume conventional is "long" or "not short" but if so, how can you have a hybrid. Again, this appears to just be adding confusion to what is being analyzed – SFSCs as defined by the authors or a more broad 'alternative marketing' approach? TAMPOCO SE HA ENTERADO

**Comentado [A4]:** I think this passage highlights the central difficulty with this article – not clearly articulating what SFSCs mean for this study. While it was made above: (lines 187-191) the authors now re-insert value relations into the definition.

I think the paper would benefit from more analysis and clarity by the authors to distinguish the attributes of:

Local food as defined by geographical distance SFSC as very few (1) intermediary between producer and consumer. Value chains – where values are being transmitted throughout the food system (production, processing, etc) to the consumer. These could be contrasted to vertically integrated industrial agriculture models.

As it reads now, the authors variously define SFSC as various combinations of items 1-3 above, don't define 4 as the 'normal' or control state; and while items 1-3 are not mutually exclusive they are not necessarily similar. It is possible to have long supply chains that still are value chains as it is possible to have short supply chains that are not valued based and both of these can happen with a short or large geographical distance.

The manuscript would be improved with a table relating the attributes above and then a simple Venn Diagram to show how they do and do not overlap with each other. TIENE TODA LA RAZÓN... SIMPLIFICAR... LOS VALORES SRFÁN UN RESULTADO... 240 Fifth, and related to that, there are some key elements that will influence the most producers chosen,

241 as they are related to possible difficulties, barriers and challenges that are in the basis of the limiting

242 answer SFSC are giving to them. These key elements are about: firstly, the range of potential functions

that the producer might undertake within the marketing channel, which would be governed to a large

extent by the resources invested and the skills developed. A producer might simply produce, or might

also take part in the processing, marketing and distribution of his/her own produce and that of others,

and might even be involved in training/awareness-raising or agritourism.

247 Secondly, the number of people comprising the organisational structure. In some cases, the initiative

might be the work of a single producer, while in others it might involve formal or informal organisations such as farmers' associations or cooperatives, with a view to sharing out some of the functions.

250 Members of these organisations might sell their produce individually, or jointly with other group

251 members.

Thirdly, linkage with other initiatives or structures, enabling advantage to be taken of the synergies
 provided by networks of varying complexity operating at provincial, regional, national or international
 level.

### 255

256 Figure 3. Description of SFSCs in the province of Málaga by organisational structure.

257

Some of the producers' associations studied, for example, were created with the aim of providing 258 259 spaces for direct marketing and awareness-raising, by organising markets and running activities there. 260 Common spaces like these help producers to engage with each other, and may lead both to the 261 emergence of groups, within the farmers' association, with a particular interest in expanding their marketing channels, and to the building up of contacts and sharing of skills enabling some producers 262 263 to market their produce individually and to distribute that of other producers. One such group additionally belongs to a regional direct-marketing network and has also established links with 264 265 nationally-based groups.

# 266 SFSCs AS SOLUTIONS FOR SMALL AND MEDIUM-SIZED PRODUCERS: BARRIERS AND

### 267 LEARNINGS

Despite the initiatives implemented, the number of small and medium-sized farms in Málaga province continues to decline, and fewer than 2% of farms are involved in SFSCs. This study identified a number of constraints preventing larger-scale implantation of SFSCs, that are intrinsic to these supply chains. In some cases authors present learnings from the case study that could help to overcome these barriers.

273

# 274 a. Required infrastructure, capacities and logistics

275 In order to market their produce through SFSCs, producer need a certain logistical infrastructure, which

276 varies as a function of the type and volume of the produce itself, the need for processing, storage

277 conditions, distribution points and relationships with consumers.

Comentado [A5]: It is not clear what the extended classification

Comentado [6]:

Moreover, the producer—as indicated earlier—has to take on new roles. In many cases, due to lack of resources, shortage of time to launch new activities, and/or lack of training, producers are obliged to

280 make new investments and contract new staff, all of which leads to increased costs.

281 Additionally, producers need to have at their command a flexible, dynamic logistical infrastructure

282 enabling them to dispose of their produce (particularly in the case of seasonal foods consumed fresh)

283 and to adapt smoothly to market circumstances. These factors generate uncertainty and are regarded

as a risk, particularly in terms of the stability of contracted staff and the need to finance theinvestments required.

286 According to a report by TRAGSATEC (2013) on SFSCs in Spain, logistical issues are among the major

constraints for online SFSCs, due to high transport costs. In our case, the main logistical constraint islinked to the size and volume of produce transported, regardless of the channel used.

289 Cooperation schemes observed are an answer to this barrier. They are based essentially on: a) sharing

290 resources, infrastructure and logistics, leading to reduced costs, improved efficiency and larger

channels; b) broadening the range of products on offer and mitigating the seasonality of production

292 through the sale of produce from other farms, either acting as an intermediary or through exchange

of produce; c) adopting a common approach and engaging with the Administration on legislative issues; d) sharing insights.

295 This practice, however, is less widespread in the livestock sector, due basically to a greater 296 fragmentation of farms, the need to process products and/or more stringent health and hygiene 297 requirements (transport of live animals, packing, cold chain regulations, etc.). Even so, there are 298 interesting innovative schemes whereby a small food processing facility is placed at the disposal of 299 local producers who want to manufacture their products and get their own brand of a concrete 300 product. It is the case, for instance, of a collective cheese factory launched by a dairy products 301 cooperative. Another example of this practice can also be found in different business incubators in the 302 EU, that offer a commercial kitchen with license (LYONS, T. S., 2002). This allows the producer to 303 embark on a commercial activity without needing to make heavy investments, and at the same time 304 to learn about processing and acquire marketing experience.

305

Other schemes includes external actors such as distributors. Producers stress the importance of building horizontal trust-based relationships, with distributors who must believe in the project/product, as a means of establishing mutually-beneficial arrangements which have no adverse implications for the consumer or customer (other type of relationships are identified as unsatisfactory). An interesting initiative related to this idea are the regional food hubs taking place in US, that allow local producers to attend bigger markets organising the local offer and counting on unsatisfactory.

useful services related to production, distribution and marketing (Barham et al., 2014).

313 Some producers operating online ordering systems use a network of shops as pick-up points; this

facilitates the process for the consumer, concentrates orders at a limited number of delivery points
and thus reduces costs.Most of these collective solutions drives us to the following difficulty related
to the wide spreading of SFSC.

### 317 b. The importance of social linkages based on food and difficulties associated

318

319 SFSC means in many cases that producers band together with a view to pooling efforts and pursuing shared interests, which poses certain challenges. One of these is that producers may find it difficult or 320 inability to cope with the strains arising when taking joint decisions within an associative or cooperative 321 322 structure. This is due, among others, to cultural considerations: the absence of a participatory tradition; the passive attitude of certain members; the selfish attitude of members who place personal 323 324 interests before the overall group vision; and the role of the member as a mere user in selling the 325 produce, with no sense of ownership of the project. A further contributory factor is the difference 326 between members in terms of production systems and economies of scale, which may hinder the 327 establishment of fully-horizontal relationships within the association itself, since the larger-scale 328 members will wield power and influence over the rest.

Moreover, although the creation of synergies and cooperation with other stakeholders is acknowledged as important, it is not always regarded as easy. Obstacles detected are primarily linked to local issues; certain models have become deeply rooted in given areas, and their particularly characteristics contrast sharply with those of other working models; rivalry, and the fear of reduced competitiveness, may give rise to mistrust and clashes between stakeholders, making it difficult to reach an understanding.

335 A number of authors including Dyer and Singh (1998) and Zander and Beske (2014) note that proximity 336 is essential to overcome some of these barriers. Collaborative efforts are based on long-term trust and 337 especially on reciprocity. It is essential that each party pursue a specific aim that fits into an overall 338 general objective. Prior internal analysis of the enterprise itself and external analysis of the alliances 339 to be constructed can help, as it can favour a common approach and strategic review of the proposed 340 alliance. A number of producers stressed the need to have a clear idea of the issues involved, and to 341 focus on common, general interests rather than personal interests, which in the long term results in higher advantages. 342

343 Proximity is also identified as crucial for a sound relationship with the consumer. Findings suggest that when personal contact is lost, and the relationship becomes more mechanical and detached, the 344 consumer gradually reduces the volume and frequency of his/her orders, becomes more demanding 345 346 and sets product price above other considerations. This finding suggest that considering SFSC as a marketing channel with certain technical characteristics (number of intermediaries, distance, for 347 instance), regardless other intangible factors such as values and personal relations will not help the 348 development of such chains. Incorporating this important aspect of SFSC will allow to assume, and 349 design consequently, that these are key issues that must be taken into account. 350

Basically, it must be considered that the time required to nurture communications and maintain 351 352 personal relationships with customers is a guarantee to ensure consumer satisfaction and loyalty 353 (Barroso and Martín 1999; Cobo and González, 2007). And it poses something of a dilemma for the 354 producer, who often has to choose between maintaining and enhancing customer relations or 355 devoting the energy to finding new customers. The SFSC mechanism thus requires that top priority be 356 given to ensuring consumer satisfaction and loyalty; so the SFSC expansion will be conditioned by the 357 capacity of maintaining a high level of communication and personal relations with consumers. Some 358 producers have found that a direct relationship with the consumer generates other added values, including personal acknowledgement of the producer's efforts and sustained, long-term consumption. 359 360 These findings tally with relationship marketing and emotional marketing theories which regard 361 keeping existing customers, rather than attracting new clients, as the key to business success (Barroso 362 and Martín 1999). According to this approach, customer satisfaction linked to quality and service creates loyalty, prompting new sales at a lower cost (Cobo and González, 2007). 363

364 Producers have also found that loyal customers becomes allied as they often act as advertisements,

365 promoting the product by recommending it to people they know. Loyalty strategies, such as "friend"

366 and "partner" schemes offering discounts or products access facilities, tend to be successful.

367 Another key strategy for some of these models is the creation of groups or communities, with a view 368 to enhancing relationships through transparency and proximity, enabling the consumer to identify with

369 the product and to participate in the project to the extent that he/she feels comfortable in doing so.

Theses links are strengthened not just by face-to-face dealings but also by social or festive activities, 370

which might help to stabilize and extend a developed SFSC. Examples of such activities includes 371

372 workshops on the manufacturing of certain products, open days at farms and processing sites, and 373 talks on responsible consumption, etc. The emotional experience creates a personal link between

374 producer and consumer which far transcends the mere exchange of goods.

375 Internet can be an useful tool used not only as a sales channel but also to strengthen these social links

376 with consumers. Websites, blogs and social media; are regarded as valuable tools, providing a

377 comfortable, easy way for users to identify shared interests, from the pleasure of sharing an elaborate

378 meal made with local food to various outlooks on life in a rural/urban environment. They also enable 379 users to interact and exchange information, and to identify the SFSCs best suited to their purchasing

380 habits.

#### 381

#### 382 c. The need to combine several SFSCs

383 Private consumer purchases are dictated by household requirements, and orders therefore tend to be 384 small. In the case of direct selling, farmers need a large network of customers/consumers in order to

385 dispose of their output.

386 All respondents stressed that a single SFSC was insufficient for marketing all their produce. Since some 387 foods are perishable, various SFSCs need to be used simultaneously, together with other channels at lower prices, in an attempt to adapt to different consumer habits. 388

389 They report that dealing with various SFSCs and a large network of customers/consumers implies 390 considerable effort, and that more time and money has to be spent on managing, selling and 391 distributing produce. Similar problems are reported in an analysis by López García (2011) of SFSC

implementation in Spain. 392

#### 393 d. Not all products are suitable for short food supply chains

394

395 Some respondents noted that when marketing via SFSCs it is essential that the product be original and

396 of good quality, without ceasing to be artisanal. They added that, since few customers are interested 397 in products of this kind and also willing to pay for quality, the producer must identify clearly the

398 potential market in order to adapt to it, and must also know where to find it and how to access it.

399 They also highlighted the need to organise production and create a corporate image, taking into

400 account the importance of format and presentation (size, packaging, etc.) and ensuring that these

- 401 appeal to the target clientele. Sometimes, producers may not be sufficiently aware of such strategies,
- 402 and respondents recommended seeking advice from professional marketing experts.

#### 404 CONCLUSIONS

403

405 SFSC are not answering to the expectations created around them related to the sustainability of small 406 and medium sized farms because of many constraints. In order to identify them, rather than focussing 407 on different types of producer-consumer relationship or on the values associated with specific 408 channels, our research highlights the importance of understanding what various types of channel entail 409 from the producer's perspective.

The producer profiles best suited to specific channels—and the skills the producer needs to develop before implementing SFSCs—are governed by the functions required of him/her, by the individual vs. collective nature of the process, and by the potential need for larger-scale linkages. Findings suggest that the intensity of the producer-consumer relationship and the values transmitted through it are in many cases unrelated to the supply chain itself, and depend more on the stakeholders involved and on the relational spaces articulated in parallel to the supply chain.

416 The numerous skills required of producers are one of the main constraints to consider. Producers, 417 when entering into SFSC, quite apart from producing foodstuffs, have to take on the additional roles 418 of distributor, salesman, advertiser and public relations expert. These requirements have a threefold 419 dimension: technical (know-how), psychosocial (skills) and financial (investments); whose solutions become harder in the context of small and medium sized producers. At the same time, since these are 420 421 often group initiatives (either undertaken by producers' associations or involving consumer input), there is also a need for group emotional management, conflict-solving and communication skills, which 422 423 few producers possess. 424 Apart for the intrinsic exigence of each SFSC, most producers opted to use a combination of SFSCs to 425 dispose of their produce. In practice a single SFSC is in most of the cases not able to cover producers marketing needs. Multichannel strategies need to be developed, which entails an increased workload 426

427 for the small producer, who is additionally required to develop new skills, making his/her work 428 considerably more difficult. This becomes ever worse when the producer needs to use also non SFSC, 429 in what have been termed "hybrid spaces". This hybrid, multichannel strategy provides a means of 430 overcoming the insufficient capacity of a single supply chain to absorb a producer's entire output. It is also dictated by the structural characteristics and organisational/logistical skills of each production 431 432 unit, and by the attempt to adapt products and services to different client-groups with differing needs 433 and purchasing habits. The degree of producer reliance on these hybrid spaces depends essentially on 434 the volume and range of products. Less use is made of hybrid spaces when output is small and more 435 diversified.

436 In this context, producers often face the dilemma «whether to increase the volume of sales through 437 SFSCs or use a range of channels to ensure sale of the entire output». However, successful initiatives 438 suggest that it must not be resolved at the expense of existing customers' loyalty. Careful nurturing of, 439 and communication with, all the stakeholders in the chain (intermediaries and consumers) is essential, 440 not just to generate stability but also to guarantee the growth of SFSCs in return for a minimal effort, 441 taking full advantage of synergies with already-established mechanisms. This means that growth will 442 be slower, and therefore that more patience will be required, but it will lead to greater stability and 443 sustainability in the medium and long term. A striking aspect of this emphasis on caring for the 444 consumer is developing abilities to build socio-affective spaces in parallel to SFSCs; these serve to

strengthen links and facilitate acceptance of the product/project. In this respect, online technology isproving extremely useful.

447

Finally, not every product has a place in SFSC. The criteria of consumers using SFSCs to purchase local food are linked to quality rather than price or ease of purchase. "Quality" in these channels is understood as referring to produce of identified origin, displaying certain attributes associated with artisanal food products, and transmitting certain values in terms of social and environmental sustainability. This will be related not only with the production process, but also with the presentation and format of products.

454 A specific sight on SFSC from a producer perspective put in evidence that not only consumers needs 455 facilities in order to get interested in SFSC, but also producers. The numerous exigences SFSC pose to

456 producers are in the basis of the stagnation of this type of alternative for small and medium sized

457 producers.

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- 586 Figure 1. Description of SFSCs in the province of Málaga by type of channel implemented.
- 587 Figure 2. Description of SFSCs in the province of Málaga by organisational structure.