

This is the accepted version of the article published by Podda A., Loconto A., Arcidiacono D. and Maestripieri L. (2021) Editorial. Exploring Agri-food Prosumption. *Journal of Rural Studies*, 82 (February 2021): 442-446. <https://doi.org/10.1016/j.jrurstud.2020.12.005> The final version is available at: https://www.sciencedirect.com/science/article/pii/S0743016720317137?casa_token=D31uZXhrgyQAAA-AA:WOjQUB4IZGgbAejfyBSX7Peg_kH3TDSqp1L2hEuC5FvJvTa5IRzfECB4nQoyRMPZCV8WewCtieg

Abstract:

The aim of this special issue is to explore emergent phenomena in the agri-food sector through the lens of prosumption, in order to highlight its heuristic value in identifying new and emerging trends in the field, especially focusing on the interplay between social and economic relations. This introduction explores the theoretical foundations of the notion of prosumption and the linkages with the alternative agri-food networks literature in order to propose a new set of research questions that can help scholars to better articulate the relationships between the emergence of hybrid actors and new forms of work in the production and consumption of food.

Exploring Agri-food Prosumption

When, in 1986, Carlo Petrini proposed a vision of a food system based on ‘prosumption’ (Petrini, 2003) – where consumers ‘co-produce’ the food that they eat – this concept required a leap of faith by both producers and consumers who were still working within a ‘marketness’ mindset (Hinrichs, 2000). Since these early studies, however, we have seen the emergence of numerous forms of direct sales and networked market engagement between producers and consumers that have extended the embeddedness arguments to bring more nuance into the diversity of political, social and economic relations in food consumption and production (Goodman et al., 2012). This is demonstrated by the global expansion of the community supported agriculture (CSA) movement that now counts initiatives on 5 continents; the re-emergence of farmers’ and weekly markets that offer direct interaction between producers and consumers; and the development of e-platforms for food (e.g., food assemblies) that create this link virtually. During the COVID-19 pandemic, these solidarity-based food exchanges reported increases in both the number of people purchasing through existing initiatives and the emergence of new initiatives around the globe (FAO, 2020). For example in France, a national level technical network followed the changes in food provisioning throughout the crisis period and found that existing initiatives consolidated their client base, particularly when there was a personalised service linking producers and consumers, but new initiatives faced difficulties in customer loyalty because they hadn’t invested in building strong producer-consumer relationships before the social distancing requirements came into effect (Marechal, 2020). Inherent in these movements is thus the open question as to the reorganisation of the roles of producers and consumers and the divisions of labour that emerge to enable loyal exchange relationships within food systems.

Prosumption and alternative agri-food networks, a rose by any other name?

Petrini’s use of the word ‘prosumer’ is the translation of a concept developed originally in the high-tech, dotcom industry. The development of information and communication technology (ICT) is one of the crucial drivers in a process of transforming users from simple consumers into producers of information

and content. Barnard (1938) was one of the first scholars to refer to consumers as "almost-employed" and over twenty years ago other scholars identified a growing consumer involvement in the co-construction of the consumer experience via the concept of *servuction* (Langeard and Eiglier, 1997). Even as far back as the 1960s, during the era of unions and workers movements, Fuchs and Leveson (1968) showed that the consumer could be treated as a factor of production similar to waged labour. However, following the oil crisis of the 1970s and the progressive introduction of neoliberal economic policies focused on increasing consumption, Toffler (1970) started to speak about *prosumers*, while Bruns (2008) spoke about the rise of *prousage* or ProAMs (professional amateurs) to refer to produce for use instead of production for exchange.

The popularity of the term 'prosumer' in the social sciences is linked to the work of Ritzer (2014), who uses the term to describe "*a process that 'subsumes production and consumption' and characterises every human activity*" (Dusi, 2018, p. 4). Ritzer's argument was that the separation of prosumption into the two distinct concepts of production and consumption was simply a bias of the historical constructions that separated labor from the means of production and created the consumer as a product of capitalism. While both schools are techno-determinist, Toffler saw prosumption as the emancipation of the consumer in the 'do it yourself' movement (cf. Watson and Shove, 2008), while Ritzer's vision saw prosuming machines replacing humans in both the production spheres like factories and in the consumption spheres like nano-sensors on food that tell us if the food is expired. In both scenarios, the fine line between production and consumption is seen more as a continuum of practices than a tipping point.

In the sociology of agriculture and food, the experiences of alternative food networks (AFN) were also developing the concept of prosumers where consumers were taking on more productive activities in food systems, particularly in relation to their own use of these services (Barbera and Dagnes, 2016; Grasseni, 2013). Specifically, geography-inspired analyses identified *short food supply chains* and *relocalisation* initiatives that sought to close physical, relational and temporal distance between producers and consumers (Goodman et al., 2012; Renting et al., 2003). In OECD countries, AFNs emerged often as a response to the ever-increasing contradictions of the globalised, unsustainable industrial food system and actors used the discourse of quality to relocalise consumption patterns (Winter, 2003). In these experiences we find consumers who refuse to have a purely passive role in the agri-food chain and who are looking for different value and meanings in how food reaches to their tables (Ostrom et al., 2017). By focusing on their ethical and social goals and on the fact that consumers are often citizens, *civic food networks* (Renting et al., 2012) can be discussed, in which *citizen-consumers* (Johnston, 2008; Zamagni, 2003) are committed to socially responsible choices and want to create further demand that also takes into account their ethical values (Carrera, 2009).

In this literature, the "consumer" is a fundamental actor in food production and the organisation of its work: particularly the processing, transporting, preparing and eventually eating it as part of meaning-making socio-cultural practices. Often, the middle ground between production and consumption takes place outside of the "formal economy" in the "substantial economies" (Polanyi, 1957) or "diverse economies" (Gibson-Graham, 2008) where enterprise, labour, property, transactions, and finance are organised in alternative ways. This literature also demonstrates the fundamental role that networks of relationships have within AFNs. If the contrast between buyer and seller may work to explain the long chains dominated by market transactions and pure value extraction (Manifesto for Fundamental

Economy, 2013), it certainly does not explain the behaviour of those actors who follow other objectives in food provisioning. The AFN literature clearly demonstrates that other values are exchanged when there are ethical, political, environmental or economic (e.g., fair prices and living wages) objectives to the exchange (Maestriperi, 2019; Ostrom et al., 2017). By bringing the notion of prosumption into academic debates in agrifood studies, we thus propose that there is a need to consider consumers as actors not excluded or separated from the production system. Rather, they are concrete generators of content, products and services in market exchanges, which can have both negative and positive effects for the quantity and type of work they do in agri-food systems.

The aim of this special issue is to explore emergent phenomena in the agri-food sector through the lens of prosumption, in order to highlight its heuristic value in identifying new and emerging trends in the field, especially focusing on the interplay between social and economic relations. Glucksmann's (2009, 2016) notion of the total social organisation of labor offers an interesting framework to our intent. Whereas the technical division of labor is the process of differentiating between formal and informal activities, paid or unpaid, traditional or technically specialised; the total social organisation of labor, suggests that every task can be achieved in different ways by crossing different domains or institutions (market, state, community, household, etc.). The organisation or prioritisation of tasks, and thus the importance of each task, varies dynamically over time. From a neo-Polanyian perspective, we are talking about work as an instituted economic process. Consumers' actions cannot be understood except in relation to all the other forms of work undertaken in the other instituted economic processes – i.e., production, processing, distribution and exchange. Instead of money, trust becomes the exchanged value on the alternative market of food prosumption. The articles brought together in this special issue analyse the role of the “prosumer” in the work required to produce not just food, but also the alternative values that are produced and consumed in agro-food systems.

Exploring agri-food prosumption

Prosumers support and embody new proposals and experiences for alternative production paradigms (Arcidiacono, 2013; Stolle et al., 2005; Willis and Schor, 2012) that are trying to re-shape global and local value chains by re-embedding and re-socialising economic exchanges. This trend deals with a re-appropriation strategy of their own market sovereignty that affects the market mechanisms characterising the nine experiences of Alternative Food Networks that are included in this special issue and summarised in table 1.

<i>Authors</i>	<i>Key research question</i>	<i>Key concepts and theory</i>	<i>Analytical approach</i>	<i>Key contributions for a debate on prosumption</i>	<i>Notion of trust</i>
Filippo Barbera, Joselle Dagnes, Roberto Di Monaco	Are there different forms of consumers' participation based on the relationships established with producers? Is the form of	Alternative Food Networks and Solidarity Purchasing Groups	Semi-structured questionnaire (1.090 interviews) to participants of SPGs in Piedmont region, Italy. PCA and regression.	Intrinsic motivation for consumption and meaning-making mechanisms are empirically correlated with the organizational settings and the	The type of participation into the SPGs influence the construction of meaning associated with consumption: consumers participate in AFNs because of the

	participation affecting consumers' attitudes and behaviours?			type of participation in the SPGs.	peculiar type of exchange they can build up with producers and other SPGs members.
Ricard Espelt	Which type of CSA promote agroecology presumption and how is this done?	Community Supported Agriculture and Agroecology Prosumption	Qualitative interviews with CSAs members and suppliers and quantitative web content analysis	Although volunteer groups are the majority (91,2% of CSAs), formally organized groups with employees have the potentiality to reach more consumers and to have a wider impact on prosumption.	Cooperatives are better able to build trust, because they have a more formal and stable structure compared to volunteer groups and the capacity to reach a wider audience of consumers.
Giorgio Osti and Giovanni Carrosio	Is the concept of nested markets more able to understand prosumption in marginal areas compared to the centre-periphery framework?	Nested markets and rural marginal areas	Secondary analysis of a purposive small sample of seven Italian cases of nested markets.	Nested markets are organized fields in which consumers and producers can orient their behaviors according to normative, identity, and solidarity aspects.	The transformative capacity of nested markets in rural areas lies in generating trusted relationship between producers and consumers.
Tatiana Carrascal	What is the role of Utopia Basket' consumers in the organization of intercultural solidarity circuits	Alternative Food Networks and Intercultural Economic Circuits	Document research, participant observation and in-depth interviews	The active participation of consumers is fundamental in setting up the intercultural economic circuits on which Utopia Basket is based.	Challenging elitism that characterise AFNs experience in high-income countries, consumers of the Utopia Box-scheme are actually creating bonds that cross ethnic and class divisions.
Maki Hatanaka	Can the organizational structure of an AFN favor the establishment of a food citizenship among its members? How do food citizens engage in governance and	Ethical consumerism and Food citizenship	Two rounds of semi-structured interviews, first in 2008 and then in 2014-2015.	Participation implies going beyond ethical consumerism and constitute an example of food citizenship based on prosumption. Active members (consumers and producers) engage in defining	The audit labor that prosumers assume in Japan achieve a horizontal and equal partnership between producers and consumers, overcoming the disconnection of the two groups.

	what kind of governance processes enable people to act as food citizens?			sustainability standards, by the audit-by-many mechanism and sharing risk and responsibilities thanks to strong partnerships.	
Marco Alberio and Melissa Moralli	Are co-producers involved in the production process? Which are the dynamics generated by the consumer-producer relation? Can co-producers be considered prosumers, or do they represent an independent and new typology of consumers?	Prosumption and Hybridity	In-depths interviews with producers and participant observations during the market days	Prosumption stems from the blurring of social and economic in the relationships between consumers and producers, via the audit-by-many mechanism defined by the Participatory Guarantee System.	The active participation of consumers in auditing becomes the way by which AFNs creates new economic relationships, going beyond market relations.
Paulo Niederle	How does veganism contribute to Sustainable Food Systems?	Practice theory	In-depth Interviews with managers and chefs, observations and questionnaires to consumers of vegan restaurants	Although veganism is only partially associated with the promotion of sustainable food practices, restaurants and consumers do promote the consumption of locally produced food. Only a minority of restaurants produce their own food.	A closer analysis of sustainable practices shows that they can be the base for promoting the creation of stronger relationship between vegan and vegetarian communities and local food producers.
Rafaël Stephens and Marc Barbier	How relevant is prosumption in dealing with alternative agrifood systems, and in enriching sociological debates around	Prosumption and Alternative Food Network	Structured interviews with members of “La Ruche qui dit Oui” and secondary analysis of food presentations in the website	Producers and suppliers co-construct meanings and discourse on food using the platform provided, which is digital and ephemeral at the	This case challenges the assumption by which the digital reputation ratings could push towards a more ‘ethical’ and consumer/society driven economy). Participation is

	food production, distribution, and consumption?			same time. Participation and membership is liquid and unstable, but discourse are persistent.	liquid and unstable when digitally mediated.
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There are three analytical dimensions that relate to prosumption emerging from the nine articles in this issue. The first one is related to the active participation of consumers and their implication in the processes of production. Prosumers are re-organising and re-scaling the production and distribution of basic goods and services that enable them to be more involved in all processes from production to consumption. This increased work acts as a strategy of “resistance” (de Certeau, 2011). In this sense, Toffler’s ‘production as use’ vision for prosumption is part of the autonomy gained through these initiatives. Indeed, there is evidence of this in the cases presented in this Special Issue that examine the Seikatsu Club Consumer Cooperative in Japan (Hatanaka, 2020), the Co-producers of Campi Aperti in Bologna, Italy (Alberio and Moralli, this issue) and the Utopia Box-scheme in Ecuador (Castilla Carrascal, this issue). Thus, trust is rebuilt through the relationship between producers and consumers on the basis of direct or mediated interaction between the two subjects (Marsden et al., 2000).

But, as a second analytical dimension, the blurring of production and consumption could have not been possible without specific organisational forms. The cases of Solidarity Purchasing Groups in Piedmont (Barbera et al., 2020), of Community Supported Agriculture in Catalunya (Espelt, this issue) and the Nested Market in Italy (Osti and Carrosio, 2020) shows that in order to achieve fruitful and effective prosumption exchange have to be also organised in different forms, that challenge the separation between consumer and production and build up new institutions for the practices alternative to markets (Maestriperi, 2018). On the contrary, when the prosumption is based on the digitalisation of practices, such as in the case of *La Ruche che dit Oui!* In France (Stephens and Barbier, this issue), the risk is that the participation of consumers is erratic and superficial, while market relationships remains substantially unchallenged.

The importance of organising practices emerges also when we focus on the type of trust produced within the single cases. The more organised, formal and stable institutions are created (such as Seikatsu Club Consumer Cooperative in Japan or the CSAs in Catalunya) the more social capital is generated within the AFNs. But, how does this question of trust change if we take seriously the idea that prosumers are ‘laborers’ within the food system who take on new responsibilities in the production of food? The complex relationship between consumers and producers should, in theory, open up space for the creation of bottom-up social innovation (Pellicer-Sifres et al., 2017). However, very few studies have opened the black-box of the relationship between consumers and producers in order to understand if they are effective at creating new economic spaces and with them labour relations for producers and consumers (Maestriperi, 2019). The system of auditing is one of the mechanism by which social innovation can trigger new economic spaces, as demonstrated by the case of Campi aperti in Italy and the Seikatsu Club Consumer Cooperative in Japan.

Thirdly, prosumption could determine a dangerous workshift where jobs that were previously professionalised shift into labor burdens on communities or households, in order to extract value from consumers’ work and transform it into a driver of exploitation (Dujarier, 2009). For example, there are

documented cases of tool libraries, digital time banking, solidarity purchasing groups, ride-sharing, social eating, social streets, co-housing, social lending, and complementary currencies that have succeeded or failed based on the willingness of prosumers to contribute their uncompensated time and labor. Many of these new forms of co-production and sharing are enabled by digital platforms or by the entry of new actors into intermediary spaces. Yet these mediated relationships often seem to be less engaged politically than those direct relationships noted in the AFNs above. We see hints of these tendencies in the special issue articles about *La Ruche che dit Oui!* (Stephens and Barbier, this issue), on the CSA digital platforms in Barcelona (Espelt, 2020), Nested Markets in Italy (Osti and Carrosio, 2020) and on Vegan restaurants in Brazil (Niederle and Schubert, 2020).

Trust is based on social capital and alternative food networks create economic relations able to generate social capital. But to be able to trigger this beneficial mechanism, AFNs need formal institutions and stable participation. The more the relations are mediated, erratic or only based on the volunteering of members, the more the experiences are subjected to ups and downs putting into question its capacity to generate social capital in the long term. Setting up organisational forms and developing practices such as auditing is the best guarantee to ensure that effective mechanisms of prosumption – such as those argued by Petrini – become the positive externalities of AFNs experiences.

Conclusions

In this short introduction, we have put forward an integrated approach to thinking through the question of how the emergence and growth of prosumption influences the notion of labour in alternative agriculture networks. The dimensions and approaches through which we frame the role of prosumers should not be read as *watertight compartments* but as interlinked layers of analysis with respect to six elements.

1. The identities, values and goals that characterise prosumption and affect actors' motivations to co-produce;
2. The processes of acquisition (or even certification) of the adequate skills and competencies that a consumer needs in order to assume a productive role. We are interested in the extent of formalisation of these processes, the extent of their recognition in other domains of production (e.g., the market), and how they are linked with specific "prosumer repertoires of action".
3. The governance of work, in terms of how the work of the prosumer coordinates with that of market actors, or with different forms of community or family work. We are interested in the spectrum of organisation forms that range from self-organised work to heterarchical governance;
4. The professionalisation processes in prosumer work and the possible conversions of the cultural, economic and social capital of this productive work into other production domains;
5. The recognition and legitimisation of prosumer work, both in symbolic terms or real economic rewards;
6. The regulation of consumer-worker rights and the emergence of institutions that recognise and protect such hybrid actors. We are also interested in the different institutional environments that can foster productive action of consumers.

While these issues, and particularly their tendency to interact and overlap, complexify both the notions of productive work and consumption practices, we feel that this special issue is quite timely. The academic

debate on the general concept of prosumption and labour has entered public discourse, particularly in Europe and in the United States with respect to the information technology and high tech fields. However, we likewise note that there is little public discussion of these labour trends in the agriculture and food sectors. While we have begun to highlight this phenomenon in this special issue, we find ourselves in a situation where the more we look, the more questions we uncover. For example:

1. How might prosumers divert the socio-economic structures that lock small producers into a marginalised position in food systems? What are some of the consequences (intended and otherwise) of greater participation of consumers and citizens in food production?
2. Prosumption attempts to cut-out the 'middlemen', but what happens when these intermediaries try to come back in, particularly in terms of the standardisation of behaviours previously considered alternative, and with new forms of employment and division of labour in food systems?
3. What are the effects of prosumption on how spaces are being reconfigured, particularly in terms of the relationship between urban and rural areas, exchange and market spaces or the quality of the environment?
4. To what extent may prosumption provide responses to rural depopulation, 'counterurbanisation', the new peasantry, and new rural economies more generally?

We conclude this introduction with many open questions that aim to stimulate new research on a complex and poorly articulated topic in rural studies and the sociology of food and agriculture more broadly. Nonetheless, we do want to draw some key conclusions based on the articles presented in this special issue. First, the figure of "prosumer" can no longer be ignored in the academic debates around AFNs, particularly if we want to understand the real impact of the role of diverse and hybrid actors within them. Second, the traditional categories of enterprise, labour, property, transactions and finance are no longer sufficient for explaining the food system changes that we observe. Hybridisation of processes, institutions and actors seem to be increasingly important. Third, it is clear that we are dealing with economic and exchange processes where other values (such as trust, work, time, morals, etc.) serve as an exchange value instead of money. Finally if trust is based on social capital and alternative food networks create economic relations able to generate social capital, then this mechanism needs formalised rules, infrastructures and stable participation if these types of exchanges are to be institutionalised. For all these reasons we believe that there is ample space for developing a broad and articulated debate on the issue of prosumers in AFNs, capable of both understanding the empirical changes taking place and proposing new theoretical interpretations.

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