ABSTRACT

The quality of rural extension and advisory services is a crucial element in fostering innovation and rural development. This article aims to clarify the concept of quality of rural extension and to develop a preliminary theoretical framework. An ample literature review was conducted in search of articles on service quality and quality of rural extension and advisory services. The first part presents the main results of the literature search on quality of extension services. The definition of quality is not universal. Quality cannot be conceptualized only as farmers' satisfaction or as extension results. It has different dimensions or components and stakeholders have different points of view about it. The second part of this article discusses the definition of service quality and the concept of Total Quality Management and underlines that the concept of quality varies according to industry types or contexts and is the result of complex negotiation among different stakeholders. Finally, a comprehensive theoretical framework for addressing quality of rural extension and advisory services is presented that differentiates among enablers that limit or facilitate the delivery of quality rural extension and advisory services, the production and delivery processes, and results obtained. Here, the key role played by quality self-assessment and organizational learning is highlighted.

Key words: agricultural extension, total quality management, rural development, institutional learning.

RESUMEN

La calidad de los servicios de extensión rural y asesoramiento técnico es fundamental para impulsar procesos de innovación y desarrollo. Este artículo busca clarificar el concepto de calidad de la extensión rural y desarrollar un marco teórico preliminar. Se realizó una amplia revisión bibliográfica sobre la calidad de los servicios y de la extensión rural. La primera parte presenta los principales resultados de la revisión sobre calidad de la extensión: su definición no es universal, no puede ser conceptualizada únicamente ni como satisfacción de los productores ni como resultados de extensión, posee diferentes dimensiones o componentes, y los actores tienen diferentes visiones sobre ella. La segunda parte discute la definición de calidad de servicios y el concepto de Gestión Total de la Calidad y destaca que el concepto de calidad varía según el contexto y el sector productivo, siendo el resultado de complejos procesos de negociación entre diferentes actores. Finalmente se propone un marco teórico completo para abordar la calidad de los servicios de extensión, el cual diferencia entre facilitadores que hacen posible o que limitan la prestación de un servicio de calidad, el proceso mismo de producción y prestación del servicio, y los resultados obtenidos. Se destaca el rol clave que juegan la autoevaluación de la calidad y el aprendizaje organizacional.

Palabras clave: extensión agrícola, gestión total de la calidad, desarrollo rural, aprendizaje institucional.

Introduction

During the last 20 years, different scholars and rural development institutions have progressively paid more attention to the importance of the quality of advisory services provided by rural extension institutions (Israel, 2010; Issa and Issa, 2013; Garst and Franz, 2014; Herman and Grant, 2015; Castaño-Reyes et al., 2017). There are several, intertwined reasons that may help to explain this process. First, in the context of the pressures towards the privatization of rural extension and advisory services (RE&AS) that began in the 80s, concepts such as ‘quality’ and ‘clientele’ that have been traditionally linked to the world of private companies (Fredendall and Lippert, 1995) became notions that could be applied to rural advisory services, now framed in market terms (Turkson, 2009; Anaza et al., 2012). Second, pressures towards privatization, coupled with a questioning of the lack of evidence for the impact of RE&AS, made clear the need for evaluating the results and quality of the services provided to present them to funding agencies or institutions in order to keep up a steady flow of resources (Diehl et al., 2012; Lamm et al., 2013; Franz et al., 2014).
Finally, more recently the rise of demand-driven extension approaches (Qamar, 2011; Masangano et al., 2017) as well as acknowledgment of the value of accountability to clients in the context of RE&AS (Galindo and Israel, 2010; Sseguya et al., 2012) also supported the ‘market framing’ of the extension practice (Christoplos, 2008). This encouraged the evaluation of the clients’ (i.e., farmers’) satisfaction with RE&AS, since it was considered to be a synonym for service quality (e.g. Fredendall and Lippert, 1995; Terry and Israel, 2004).

In the context of the great importance widely assigned to the quality of RE&AS in the scholarly literature as well as in institutional practices, the concept of quality of RE&AS as well as the strategies to evaluate that quality would be expected to be a fundamental topic of debate in extension science. However, most academic bibliography tends to use the concept superficially, implicitly assuming commonsense definitions when referring to the importance of or the need for improving RE&AS quality (e.g. Danielsen et al., 2013; Garst and Franz, 2014; Myeni et al., 2019). Furthermore, even when the concept of quality of RE&AS is explicitly addressed, the term is usually vaguely defined; or the paper is lacking a proper discussion of what quality is in the context of RE&AS (e.g. Benin et al., 2007; Feng et al., 2007; Dunne et al., 2019). Most importantly, works aimed towards increases in RE&AS quality cannot be based on unclear, vague or decontextualized definitions and conceptualizations of the term; and it is apparent that increasing the quality of RE&AS implies increasing its potential to improve farmer productivity and promote rural development.

Thus, it is clear that the concept of quality has gained greater relevance in the context of RE&AS. However, the term “quality” has been neither properly discussed nor properly defined. The objectives of this review article are: (1) to explore and clarify the concept of quality used in RE&AS academic and institutional literature, pointing out the main limitations; (2) to present the key elements of the current debate on service quality and quality management in order to address such problems; and (3) to develop a preliminary theoretical framework to define quality of RE&AS and to guide the implementation of actions aimed at improving it.

**Literature review**

In order to meet the objectives of this article, I conducted a two-step literature review. Firstly, I used the descriptors ‘quality’ + ‘[rural/agricultural] extension’ and ‘quality’ + ‘advisory services’ (and their equivalents in Portuguese and Spanish) to search for relevant literature in EBSCO, SCIELO and DOAJ databases, and in websites of relevant institutions such as the Food and Agriculture Organization of the United Nations (FAO), the Global Forum for Rural Advisory Services, and the Inter-American Institute for Cooperation on Agriculture. I read the selected texts and identified the main topics of debate.

Secondly, I used the same databases to search for literature on topics acknowledged as relevant during the previous review, including ‘service quality’, ‘quality management’, ‘quality standards’, ‘EFQM [European Foundation for Quality Management] Excellence Model’ and ‘ISO 9000’. In this case, articles were analyzed and relevant topics for addressing quality of RE&AS were selected.

The following titles summarize the main topics identified during the literature review.

**Quality in RE&AS current literature**

**On the definition of rural extension and advisory services**

In this paper, I follow the standard definition used by Christoplos (2010) in the context of the Food and Agriculture Organization of the United Nations (FAO). He defines ‘extension’ as an admittedly amorphous umbrella term for all the different activities that provide the information and advisory services that are needed and demanded by farmers and other actors in agrifood systems and rural development. Thus, the author defines rural extension as an ‘umbrella term’ and gives advisory services a central role. In English, the concepts of ‘rural/agricultural extension’ and ‘advisory services’ are frequently used as synonyms, with the frequency of the use of one or the other depending on the context and the country. Following this common use, both concepts are used as synonyms in this paper.

**Quality with regards to RE&AS: Quality of what?**

When addressing RE&AS quality it is essential to be clear about the quality of which aspects, practices, or services we are referring to; because RE&AS involve different activities and, thus, an inaccurate use of the term may lead to confusion. For instance, Issa and Issa (2013) seem to refer indistinctly to the quality of the extension personnel and the quality of extension services. In general, when addressing RE&AS quality, most authors refer to the quality of rural extension/advisory services in general (e.g. Lamm et al., 2013; Anik and Salam, 2015; Jona and Terblanché, 2015; Elahi et al., 2018). Nonetheless, there are also other two, frequently mentioned, aspects of quality with regards
to RE&AS. Firstly, there are several authors who focus on the quality of extension programs (Garst and Franz, 2014; Singletary et al., 2016), and not on RE&AS as a whole. On the other hand, other scholars pay attention to the quality of extension agents (Sarker and Itohara, 2009), that is to the quality of the human resources that provide RE&AS.

When analyzed in depth, it is clear that service quality, program quality and advisors’ quality (among other alternatives) are different aspects, dimensions, or components to consider when addressing quality in the context of RE&AS. What’s more, as they comprise different aspects of RE&AS quality, the indicators that ought to be used to assess them should also be different. Thus, the need to clarify the quality of what we are talking about when addressing quality in the area of RE&AS becomes apparent. Finally, in general terms, the most common reference to quality in this context (and arguably the one with the most practical potential) seems to be service quality, which takes into consideration RE&AS practices as a whole.

**Quality as clients’ satisfaction or as results?**

Having analyzed what aspects of the quality of RE&AS can be addressed, it is now time to discuss what quality means in this context. In order to do so, from now on, the focus will be on RE&AS quality (this is, service quality). In RE&AS academic literature, there are different ways of defining service quality. However, two of the most common definitions are as clients’ satisfaction or as extension results.

Many scholars consider (explicitly or implicitly) quality to be farmers’ satisfaction with the extension service (e.g. Beinin et al., 2007; Issa and Issa, 2013; Singletary et al., 2016). In this way, farmers and their expectations and wishes define what quality is. However, despite the importance of valuing farmers’ perspectives, considering their satisfaction as the core aspect of service quality has limitations.

Firstly, Fredendall and Lippert (1995) argue that such an approach is characteristic of private businesses focused on making profit and building customer loyalty. Nonetheless, it is clear that the goals of RE&AS go beyond those that frame market logic (Sulaiman and Davis, 2012; Vicher, 2012), such as reaching public goods (Rivera and Alex, 2004; Franz et al., 2014; Baig et al., 2019), like for instance environmental conservation. Thus, it is clear that, although farmers’ (or other clients’) satisfaction may (and should) be considered as part of service quality, it cannot be its only or foremost dimension.

Secondly, several authors have argued that low-income communities that have no access to certain services tend to be highly satisfied with them even when they are considered of low quality by other types of clients or from a technical point of view. For instance, Comes and Stokiner (2004) have shown that poor women are highly satisfied with having access to health care even if they have to wait several hours to obtain it. In this line, López and Pérez (2014) differentiate between perceived and real quality, pointing out that the former is framed by expectations and these can be unrealistic (very low or very high) when people have no knowledge or experience of different alternatives as occurs with underprivileged social sectors. According to Landini (2016a), farmers should be informed of the different extension service alternatives to allow them to identify what they really want. Thus, using farmers’ satisfaction to properly evaluate service quality would require a prior knowledge (or even joint development) of different extension service alternatives, even those that are not available, which is almost never considered when assessing farmers’ satisfaction.

The third argument addresses the fact that farmers’ expectations and satisfaction may not coincide with (and may even be contrary to) other extension goals or social values that are considered superior or at least equally valuable, particularly in the case of publicly funded RE&AS. What if clients are satisfied with RE&AS but these are not racially equitable, do not support gender equity, or go against key social values or institutional objectives? Or if they are unsatisfied but extension services are in line with institutional priorities and goals? In consequence, farmers’ satisfaction should not be considered as the key aspect of service quality, but simply as one element that, combined with others, shapes what quality extension service is (e.g. Danielsen and Kelly, 2010; Rodriguez-Espinosa et al., 2017).

Fourthly, in the previous argument the focus was on farmers’ satisfaction. However, why not consider the satisfaction of other relevant actors? Within RE&AS literature, Fredendall and Lippert (1995) highlight that extension institutions have external (farmers) and internal customers, the latter generally comprises extensionists, given that they are clients of internal processes. Why should not extensionists’ satisfaction be considered as part of the quality of extension services? According to different authors (Archer et al., 2007a, 2007b; Castaño-Reyes et al., 2017; Rodriguez-Espinosa et al., 2017) excellence criteria in extension should be meaningful for a variety of stakeholders, and not only for farmers. In this line, it is debatable that, even when extension service quality is understood in terms of satisfaction of expectations, only farmers’ satisfaction is taken into consideration, and not that of a wider range of actors.
Fifth, in the case of RE&AS, where scientific knowledge is at stake, addressing quality only in terms of farmers’ satisfaction would seem to be a limited approach. Danielsen and Kelly (2010), besides valuing clients’ satisfaction, propose that technical quality should also be included when developing quality criteria. It could be argued that technically incorrect advice would not lead to clients’ satisfaction, but when advice implementation results are unclear due to the entanglement of multiple factors, addressing technical quality directly seems to be preferable.

The second most common frame for understanding extension service quality is assimilating it for reaching desired results (Mueller, 1991; Birner et al., 2009; Faure et al., 2012). In this context, some authors tend to highlight the importance of extension impact (e.g. Herman and Grant, 2015). However, others are more cautious, arguing that impacts such as adoption of technologies yield increase and, even more, poverty reduction are the result of multiple factors, with RE&AS only being one among others (Benin et al., 2007; Birner et al., 2009). Thus, they tend to assess quality in terms of extension performance as an indicator of results (Rivera and Alex, 2004; Danielsen et al., 2013).

With regards to quality as results, there are issues that deserve discussion. Firstly, assimilating extension quality into results leads to the question of deciding which results are to be considered as RE&AS quality. Depending on the extension approach, expected results are different, ranging from technology transfer to fostering innovative processes (Leeuwis and Aarts, 2011; Landini, 2016b). What’s more, different stakeholders expect different results. For instance, Christoplos et al. (2012) have argued that farmers and the general public (the society as a whole) may have different goals with regards to environmental issues. Likewise, Sayeed et al. (2015) point out that governmental authorities may be more interested in reaching objectives such as food security, compared to the ones preferred by farmers (for instance increasing monetary income). Thus, it is clear that different stakeholders may and will have different extension objectives. Acknowledging this, scholars have suggested the construction of quality indicators in a participatory way, taking into account the perspectives of extensionists, policymakers, farmers, and other relevant stakeholders (Archer et al., 2007a, 2007b; Birner et al., 2009; Landini and Bianqui, 2018). Nagel (1997) states that extension approaches are presented in terms of their most important organizational forms and their respective goals. The goal system reflects the power positions of various groups of actors. Thus, if extension quality is going to be understood in terms of its capacity to reach desired results, then the power dynamics underlying the equilibrium or the compromise between different stakeholders’ objectives should be acknowledged.

The second main issue when addressing RE&AS quality as results has to do with the relationship between the means and the ends, that is, quality procedures versus quality results. Clearly, the capacity to reach desired results is a sign of RE&AS quality. When analyzing high impact extension programs, Mueller (1991) pays particular attention to the ‘roots [...] linked to desired outcomes’, which refers to the processes that allow for those results to be reached. As argued previously, the technical quality of extensionists’ advice cannot be considered in and by itself a goal but instead as a way of reaching good results (Danielsen and Kelly, 2010). Likewise, there are also means such as extension strategies or approaches linked to specific values that seem to be part of extension quality but cannot be expressed in terms of results. Some examples are the implementation of culturally appropriated and socially inclusive interventions and the use of participatory processes or gender sensitivity (Trigo et al., 2013; Krishna et al., 2019). Thus, the quality of RE&AS cannot be reduced only to reaching desired goals but should also include socially acceptable interventions and technically pertinent recommendations.

Quality criteria and best practices in RE&AS

The RE&AS scholarly literature not only describes RE&AS quality in terms of clients’ satisfaction and of reaching desired results. Authors mention a multiplicity of dimensions or quality components that are useful for widening our conception of service quality and that may also be used for assessing it. In this level, these dimensions are divided into two different categories: those referring to the quality of the advice and those that address extension service in general. Additionally, best/good practices in RE&AS are mentioned, given that they can also be helpful towards identifying quality processes in RE&AS.

Characteristics of quality advice: Characteristics that shape what quality advice is

1. The information provided by the adviser is technically accurate and up-to-date in scientific terms (Terry and Israel, 2004; Sarker and Itohara, 2009; Israel, 2010), and it is effective at accomplishing its objectives (increasing productivity, reducing diseases, etc.) (Turkson, 2009). Danielsen et al. (2013) describe this in terms of technical quality.

2. The advice is useful, relevant and effective in practical terms, for solving problems or reaching its objectives (Birner et al., 2009; Faure et al., 2012; Jona...
Landini: What does ‘quality’ mean in the context of rural extension and advisory services?

and Terblanché, 2015; Ragasa and Mazunda, 2018; Dunne et al., 2019). It is also feasible (Mueller, 1991; Lamontagne-Godwin et al., 2017). The advice cannot be described as high-quality if farmers have no access to the required resources or do not have the necessary knowledge to put it into practice (Danielsen et al., 2013).

3. The advice is easy to understand and use (Fredendall and Lippert, 1995; Israel 2010). It is practical and not too technical (Jona and Terblanché, 2015).

4. The advice is timely and is provided without unnecessary or excessive delays when needed (Benin et al., 2007; Birner et al., 2009; Danielsen et al., 2013; Elahi et al., 2018).

Broader characteristics of a quality extension service
Rural extension does not only involve providing advice to farmers. In the following list, the dimensions expressing quality of RE&AS that go beyond the characteristics of advice are presented.

1. Quality extension workers require establishing good interpersonal relationships with farmers and other stakeholders (Turkson, 2009). This involves treating people with respect (Sseguya et al., 2012) and building trust with farmers (Landini, 2016c).

2. Extensionists’ clientele have to participate in the planning, implementation and evaluation of extension programs (Archer et al., 2007a). In this line, quality RE&AS require the incorporation of farmers’ and other stakeholders’ inputs in order to use them to design extension strategies and to keep beneficiaries informed about the implementation process as well as the results (Mueller, 1991; Christoplos et al., 2012).

3. Quality extension service has to be culturally pertinent. That is, it must be respectful of local ways of life, acceptable in terms of people’s customs, and even re-organized and based on the beneficiaries’ cultural rationale (Singletary et al., 2016).

4. Quality RE&AS do not only have to reach desired results but also be efficient (Birner et al., 2009; Danielsen et al., 2013). In general terms, this would imply that the benefits of the RE&AS are below its cost (Zwane and Groenewald, 2014).

5. Flexibility and acknowledgment of diversity. The lack of flexibility of extension programs leads to multiple problems and poor results. Thus, extension programs have to both acknowledge diversity and take into consideration the specifics of particular contexts (Aguirre, 2012).

Best practices and quality
Best practices in RE&AS refer to those extension practices or guidelines that have proven from experience to contribute to reaching better extension results. Although best practices have not generally been considered as being ways of referring to RE&AS quality, the fact that they express the means to obtain desired results allows us to think of them in terms of process quality. Although many best extension practices have been proposed, only the most frequently used and the most useful for this context are presented.

1. Implementation of participatory, demand-driven extension approaches. There is considerable agreement in RE&AS that good extension services have to be participatory and structured by demand and not by supply (Trigo et al., 2013; Akumu et al., 2019).

2. Interdisciplinary approach. Traditionally, RE&AS have been considered a practice focused on technical expertise. Nonetheless, over the last decades, the complexity of rural extension has increased enormously (Leeuwis, 2004; Sulaiman and Davis, 2012). Thus, it is clear that obtaining good extension results requires involving practitioners with different social and technical backgrounds (Landini and Bianquist, 2014).

3. Gender-sensitive approach. Even nowadays it is common that RE&AS address mainly male farmers and do not acknowledge how gender influences farmers’ practices. It is clear that women have a key role in agriculture and that extension practices have to be gender-sensitive and aimed towards gender equity (Quaye et al., 2019).

4. Dynamic, bi-directional articulation between research and RE&AS in the context of agricultural innovation systems. Within the traditional extension approach, researchers develop technologies and extensionists transfer them to farmers. In contrast, the current understanding of innovation highlights the role of agricultural research and rural extension as part of agricultural innovation systems, in which different stakeholders reflect critically, learn together, and develop new strategies to face existing challenges (Moschitz et al., 2015).

Evaluation of quality and RE&AS enhancement
One of the key topics when addressing RE&AS quality is quality improvement (Sseguya et al., 2012; Sayeed et al., 2015; Castaño-Reyes et al., 2017). Taking into account the fundamental role of quality evaluation in this process, an
overview of the topic is going to be presented. Most evaluation processes mentioned in the academic literature linked to providing quality RE&AS are in the areas of customer satisfaction (Fredendall and Lippert, 1995; Galindo and Israel, 2010) and extension results, impact, or effectiveness (Lindner and Nieto, 1998; Christoplos, 2008; Birner et al., 2009). Interestingly, both approaches should not be thought of as contradictory but as complementary (Terry and Israel, 2004).

Despite their importance, several authors have expressed concerns about the limitations of frequently used procedures for quality evaluation (Faure et al., 2012). Some scholars have highlighted that performance assessment is often irregular and sparse (Danielsen et al., 2013; Castaño-Reyes et al., 2017) and that it usually pays more attention to the private value of programs than to public good (Franz et al., 2014). Likewise, some scholars have drawn attention to the difficulty involved in evaluating RE&AS quality (e.g. Lamm et al., 2013; Herman and Grant, 2015; Lamontagne-Godwin et al., 2017). Different methodologies have been used to assess RE&AS quality. The most common one is the use of questionnaires and surveys specifically designed for impact and customer satisfaction evaluation in RE&AS (Lindner and Nieto, 1998; Galindo and Israel, 2010; Israel, 2013). Nonetheless, there are also reports of the use of general service quality measurement instruments, such as SERVQUAL (Feng et al., 2007) or SERVPERF (Grīnberga-Zālīte and Liepa, 2012). Additionally, other authors have mentioned participatory impact or quality assessments (Castaño-Reyes et al., 2017) and the application of observational tools (Herman and Grant, 2015). Lamm et al. (2013) that highlight that quality evaluations tend not to assess behavioral changes.

Different authors underline the importance of RE&AS evaluation for quality improvement and institutional learning (Archer et al., 2007b; Diehl et al., 2012; Lamm et al., 2013). However, most scholars do not address the process of how quality assessment results can turn into service quality improvements. In order to do this, Danielsen and Kelly (2010) highlight the significance of raising extensionists’ awareness regarding quality improvement and stimulating critical reflection, while Herman and Grant (2015) suggest developing plans for improvement based on identified strengths and weaknesses. Nonetheless, the most common reference in this context is the use of a Total Quality Management (TQM) approach. TQM will be addressed more in depth later, when analyzing the quality management literature. However, it is worth mentioning that TQM focuses on customer satisfaction and quality improvement and is commonly used in the context of private business; but TQM can also be adapted for improving RE&AS quality (Fredendall and Lippert, 1995; Lindner and Nieto, 1998).

**Synthesis and key conclusions**

Several interesting conclusions were reached after analyzing quality in RE&AS literature. These are summarized as follows:

1. The concept of quality within RE&AS has gained relevance but has not been properly discussed or clarified.
2. Equating RE&AS quality with farmers’ satisfaction or with results has important limitations.
3. Different stakeholders’ points of view (and not only farmers’) have to be considered when assessing satisfaction with RE&AS and identifying which extension results are valuable.
4. Different stakeholders’ expectations and goals regarding RE&AS may differ and even be contradictory. This implies that their assessment of service quality may be different, and that prioritizing the perspective of one stakeholder over another entails power struggles.
5. RE&AS definition of quality is neither general nor universal. What is considered quality within RE&AS will depend on the extension approach and the expected results.
6. Constructing RE&AS quality indicators requires participatory processes that take into account the perspectives of extensionists, policymakers, farmers, and other relevant stakeholders.
7. RE&AS quality entails both quality processes and quality results. Quality processes refer to aspects not necessarily considered within customers’ satisfaction and extension results, such as equity of access or transparency in the use of resources.
8. Quality advice has to be technically accurate, useful, easy to understand and use, and timely.
9. RE&AS quality entails extension staff having positive attitudes towards people, involvement of beneficiaries, cultural pertinence, and efficiency.
10. From the perspective of the best extension practices, RE&AS have to adopt a participatory, interdisciplinary, gender-sensitive, horizontal and flexible approach.
11. Quality assessment is essential. Total Quality Management seems to be a useful strategy for quality improvement.
Quality and quality management in the current debate

Nowadays, the concept of quality is a central area of research and debate in the contexts of marketing, business, and many other disciplines. In this heading, key elements of academic literature on quality will be presented and discussed in order to generate useful guidelines for the analysis and enhancement of RE&AS quality.

On the definition of service quality

Multiple and contrasting definitions and conceptualizations of quality can be found in the academic literature. It is apparent that there is no clear, scholarly agreement on what quality is or what it means (Radomir et al., 2012; Torres, 2014; Javed et al., 2019). Several authors have argued that quality is a complex and multidimensional concept (Fatima et al., 2019; Marimon et al., 2019), which makes it difficult to define. Arguably, the existence of different definitions and conceptualizations of quality helps to grasp the concept’s complexity and multidimensionality, thus, making them complementary instead of contradictory (Kiauta, 2012). According to Garvin (1984), to rely on a single definition of quality is a frequent source of problems.

Different scholars have highlighted that the interest in quality emerged in the context of the manufacturing industry (Cordero et al., 2013; Torres, 2014; Alzaydi et al., 2018), that is, in terms of product quality. However, there is a consistent agreement regarding the relevant differences between goods and services when addressing quality (Radomir et al., 2012; Prakash and Mohanty, 2013; Polyakova and Mirza, 2015). Torres (2014) presents a definition of service quality that seems to be particularly useful for thinking about RE&AS, given the fact that it simultaneously considers customers’ expectations, as well as the points of view of experts and other stakeholders: a service of quality is one whose superior standards create a sense of value that matches or exceeds the customer’s ideal expectations. A quality service has enduring characteristics that would fulfill the standards of various stakeholders including consumers and experts.

In the context of service quality, the services’ specificities and the market orientation of most academic literature have led most authors to consider service quality as customers’ satisfaction or as perceived quality (López and Pérez, 2014; Polyakova and Mirza, 2015). Interestingly, this shows the change from a definition of quality centered on the inherent properties of goods or services to an approach focused on their capacity to fulfill consumers’ needs or expectations (Vicher, 2012).

This theoretical presentation allows for some useful reflections on addressing the concept of RE&AS quality. Firstly, it was argued that there is no scholarly agreement on a single definition or conceptualization of quality. In consequence, further debate and discussion of what RE&AS quality means is a must. Secondly, potential disagreements in this debate should not be considered a problem or a limitation but, instead, a contribution to understanding the multiple dimensions of RE&AS quality. Finally, it is important to frame the debate over RE&AS quality in the context of service quality. Nonetheless, this framing should acknowledge that the market-oriented perspective of service quality focused on customer satisfaction is not the best fit for RE&AS, given that it needs to consider other dimensions of quality, such as technical quality as well as the social impact of extension services.

Key debates and discussions for a RE&AS quality framework

Some debates on quality are particularly useful for building a RE&AS quality framework. Firstly, there is an intuitive tendency to understand quality from a realistic perspective, in the sense that quality and its dimensions are usually assumed to exist before any definition of them. If this perspective is accepted, defining quality would imply formulating a good definition of what quality is. However, different authors have argued, perhaps not explicitly, that any definition of quality is the result of a social, constructive process. That means that quality is not pre-existent to its definition. In this sense, it has been highlighted that organizations as well as researchers have to formulate or select the quality definition that best fits their situation and interest (Hernández et al., 2013; Urban, 2013). Interestingly, ISO 9000 Quality Standards do not provide a specific definition of quality for every industry or service area, but just a general one, leaving to each organization or institution the explicit responsibility of identifying their customers and other interested parties’ needs and their own contextual quality objectives (ISO, 2015).

Additionally, many scholars have also highlighted that definitions of quality vary among different industry and service areas (Cordero et al., 2013). Thus, it is clear that definitions and relevant dimensions of quality are industry, context and culture-dependant (Prakash and Mohanty, 2013; Terziovski and Guerrero, 2014; Polyakova and Mirza, 2015; Marimon et al., 2019; Subiyakto and Kot, 2020).

A second interesting area of debate is the role of different stakeholders or interested parties in the contextual
definitions of quality. Within the market-oriented approach, consumers tend to be seen as the main source that defines what quality is in a specific industry area, company or organization. However, authors have claimed that, although quality must be customer-driven, the concept of quality used by a particular company can be enriched by also using the perspectives of experts and internal stakeholders (company’s staff) (López and Pérez, 2014; Torres, 2014; Rodríguez-Espinosa et al., 2017). Additionally, Golder et al. (2012) argue that quality attributes have also to be evaluated from an expert point of view, given the fact that customers may not have a clear or accurate perception of them. Interestingly, several authors suggest that different stakeholders can have different perceptions of service quality (Dedeoğlu and Demirer, 2015).

Different authors argue that organizations that offer high-quality products and/or services have to satisfy the needs and expectations of different stakeholders and not solely those of customers (Prakash and Mohanty, 2013). Moreover, Majstorovic (2009) suggests considering different stakeholders, such as owners and employees, as different types of customers, placing them on the same level as traditional customers. Interestingly, the ISO (International Organization for Standardization) 9000 Quality Standards highlight that quality organizations not only have to satisfy customers’ needs but also those of other interested parties (Vicher, 2012; ISO, 2015). The ISO 9004/2009 Standard defines interested parties as individuals and other entities that add value to the organization or are otherwise interested in or affected by the activities of the organization. Despite the fact that specific industries or sectors of the economy may have to consider different stakeholders, in general terms, shareholders/owners, employees, suppliers/partners, and even the society as a whole are acknowledged as interested parties (ISO, 2005, 2009; Majstorovic, 2009). Likewise, the Excellence Model of the European Foundation for Quality Management (EFQM) also considers that excellent organizations have to meet the needs and expectations of different stakeholders (Michalska, 2008; Ciravegna, 2015; Castaño-Reyes et al., 2017), even including within their model those of employees and the society as a whole, besides customers and owners (Suárez et al., 2014). In acknowledgement of the fact that different stakeholders may have different and even contradictory needs and expectations, the ISO 9000 Standards highlight that the needs of the interested parties have to be met in a balanced way over the long term.

Finally, the last interesting topic of discussion refers to the components of a comprehensive, theoretical model for service quality. In this context, four key elements are identified: enablers, production processes, products, and results. Enablers are what makes quality processes, products, and results possible. The production process refers to how or in which way a product is built or a service shaped and delivered (Golder et al., 2012; Alzaydi et al., 2018). Products are the goods prepared for customer use or the service delivered to them. Lastly, results are what are obtained through the consumption of goods or services, both in the short and long term. These four elements are addressed in different ways by different approaches to quality.

In the context of the manufacturing industry, process and product are usually the core elements of quality. In this line, product quality is assumed to be the result of quality processes that assure conformance to specifications (Prakash and Mohanty, 2013). In the area of health services, processes and results seem to be the focus (Robledo et al., 2012). Here, processes that follow scientific knowledge are expected to lead to health improvements (Cordero et al., 2013; López and Pérez, 2014). From this perspective, patients’ satisfaction with the practitioners and the health system is not neglected (García, 2001), but it is not considered to be the principal component of quality health services. In the context of a market-oriented approach to quality, customer satisfaction is paramount (Golder et al., 2012; Polyakova and Mirza, 2015). Within this debate, customer satisfaction (customer understood either in a limited or broader sense) expresses a specific type of result: that is, customers are satisfied with the service or the product they have received.

The EFQM Excellence Model is composed of two types of elements: enablers and results. Enablers are defined in terms of what an organization does and how it does it, and results are what the organization achieves regarding all interested parties (Michalska, 2008; Castaño-Reyes et al., 2017). The fundamental idea of the model is that merely addressing results does not allow companies to understand how product quality is generated (Robledillo and Velázquez, 2013; Saiz and Olalla, 2013). In this sense, enablers are expected to lead to quality results (Ciravegna 2015; Gómez et al., 2015). Using a different terminology, Vicher (2012) describes organizational or process quality as ‘internal quality’, and Prakash and Mohanty (2013) highlight the importance of increasing the attention we place on the ‘how’ aspects of service quality (processes) instead of only focusing on the ‘what’ aspects (the service or product provided). The EFQM model includes five enablers and four types of results. Enablers include leadership, policy and...
strategy, people, processes, and partnerships and resources, while results are divided in terms of customers, people (employees), society, and organizational results (García, 2001; Suárez et al., 2014). Interestingly, this idea of multiple result areas clearly resembles the existence of multiple parties or stakeholders with different needs, expectations or interests.

Another topic of the literature on quality refers to specificities of services in contrast to manufactured products. As stated before, several authors emphasize that services are generally produced while they are being consumed. Moreover, it has also been highlighted that, in many cases, services are co-produced in the interaction between providers and consumers (Golder et al., 2012; Prakash and Mohanty, 2013; Alzaydi et al., 2018), which may lead suppliers to lose some control over the service they are providing (Polyakova and Mirza, 2015). Interestingly, analyzed from this perspective, the difference between service production processes and service delivery seems to partially lose weight and relevance, making the limit between them somewhat blurry.

Several ideas for developing a RE&AS quality framework can be drawn from this third area of theoretical discussion. Firstly, the concept of enablers emerges as highly useful, given the fact that acknowledging them helps us to understand how quality is generated and thus develop strategies to improve it. Secondly, the idea of understanding service production and service delivery as part of the same process also emerges as a promising tool for making sense of RE&AS quality dynamics, because services provided by extension workers and advisors imply simultaneously producing and delivering them. Thirdly, different authors understand RE&AS quality in terms of farmers’ satisfaction or perceived quality. Nonetheless, following the EFQM model, it seems wise to recognize that in RE&AS there are various interested parties (stakeholders) that expect different results. Thus, a RE&AS quality framework should consider farmers or customers’ satisfaction as one among other expected results that encompass quality.

**Total quality management**

Another area of interest for RE&AS is Total Quality Management (TQM). TQM is a holistic management philosophy aimed at obtaining excellent results through continuous organizational improvement (Suárez et al., 2014; Ciravegna, 2015). TQM requires changes in the organizational culture, involvement of all staff, and clear commitment of top management (Santos and Álvarez, 2007). It goes beyond simply assessing quality or organizational results and its focus is the analysis of the whole institutional dynamic and its relationships with the environment in order to address quality in a much broader sense (García, 2001; Saiz and Olalla, 2013). According to Robledillo and Velázquez (2013), TQM studies all the aspects and dynamics of an organization aimed at reaching quality results in a never-ending, continuous process (Prakash and Mohanty, 2013).

Total Quality Management requires identifying and determining the needs and interests of customers and other interested parties and defining the quality policy and the quality objectives of the organization (ISO, 2005). These guidelines allow for periodical self-assessments that compare the organization with a model of excellence, thus leading to the development and implementation of improvement action plans (Majstorovic, 2009; Saiz and Olalla, 2013).

Despite their differences, the ISO 9000 International Standards and the EFQM Excellence Model are two of the most well-known approaches for increasing business and organizational performance (Guix, 2005; Ciravegna, 2015). The EFQM Excellence Model is a non-prescriptive framework based on the identification of key enablers and results for achieving sustainable excellence (Robledillo and Velázquez, 2013; Suárez et al., 2014). In contrast, although ISO 9000 Quality Standards incorporate different principles of excellence business models (Ciravegna, 2015), they are mostly aimed at standard quality management systems (Santos and Álvarez, 2007).

Beyond the interest of the EFQM and ISO 9000 Standards, there is agreement that they are not a panacea and have a number of limitations when attempting to guide organizations along their path to excellence (Kiauta, 2012; Terziovski and Guerrero, 2014; Marimon et al., 2019). Guix (2005) states that the EFQM Model (but also the ISO 9000 Standards) has difficulties addressing issues of technical expertise, such as the case of public health and, of course, RE&AS. Thus, it is clear that companies and organizations can adopt quality models and strategies such as the EFQM or the ISO 9000 Standards, but they should take into consideration that they will have to find their own way of increasing performance and quality (García, 2001; Hernández et al., 2013; Gómez et al., 2015).

**Towards a theoretical framework for RE&AS quality**

Up to this point, the current literature on RE&AS quality has been analyzed, as well as that addressing quality in general. In this heading, a proposal for a theoretical
A framework for addressing RE&AS quality is presented. Figure 1 expresses the proposal graphically.

In order to address RE&AS quality, three different, though articulated, elements are considered: the enablers, the process of producing and delivering the RE&AS, and the results obtained from such advice. Some examples are presented in Figure 1. Nonetheless, each extension institution should identify the most relevant components for their situation and context.

The enablers are the factors or processes that limit or facilitate the delivery of a quality RE&AS. Enablers are specifically highlighted in the EFQM excellence model. When reflecting on the quality of RE&AS, we usually tend to focus on the production and delivery process (mainly the relationship and interaction between advisors and farmers, and the content of the advice, etc.) and on the results obtained. Thus, what makes quality RE&AS possible (i.e. enablers) tends to be neglected. In this context, including enablers in the model helps us to acknowledge their relevance as ‘roots’ of extension service quality. At the same time, it allows us to better identify the reasons for the low quality of RE&AS and the factor(s) that need to be addressed to improve them. Importantly, enablers seem to be multiple, diverse and highly context-dependent. However, identifying them is essential for developing strategies for quality improvement.

The second and third elements of the model are each composed of a set of quality standards. The idea of differentiating between them is to acknowledge the existence of dimensions of quality RE&AS that refer to quality processes (the production of the extension service and its delivery), while other dimensions refer to quality results that are expected to be obtained through the service. Despite finding support within academic literature on the subject, the standards presented in Figure 1 also have to be considered as examples and identified and jointly constructed for each particular institution in its context.

As mentioned above, the second element of the model entails quality standards referring to the process of production and delivering the extension service. Let us remember that the extension service (as many other services) is co-constructed with the customers (mostly farmers but also

![Figure 1. Theoretical framework for RE&AS quality.](image-url)
other stakeholders), and implies that the production and delivery processes cannot be analyzed separately. Briefly, this second component of the model includes aspects related to both the production of the service, such as good interpersonal relationships between extension workers, and to the service itself, for instance usefulness and accuracy of the advice.

Finally, the third element encompasses the expected results of the extension services. Reaching these results also expresses quality. Regarding these quality standards, it is fair to discuss the degree of influence of RE&AS in reaching them. For instance, while being a traditional objective of RE&AS, increasing farmers’ productivity is also influenced by the weather and the quality of inputs, among other variables. Importantly, different stakeholders will have to identify and define, among the results under the influence of RE&AS, which ones have to be considered as quality results.

A second aspect of the model refers to the stakeholders or interested parties that should be part of the definition of what quality is when referring to rural extension quality processes, services and results. As stated previously, farmers are not the only ones that can contribute to defining RE&AS quality, nor are extension experts. RE&AS involve different stakeholders whose perspectives have to be considered. In Figure 1, farmers, extension experts and extension staff are included, among others. The stakeholders to be considered as well as the procedures and the degree of their involvement (and power of influence) will vary and will have to be defined in each case, depending on the specific institutional and social context. For instance, relevant stakeholders will differ according to the institutional type (public or private) and the main objective of RE&AS (i.e. increasing farmers’ productivity or addressing serious food insecurity situations). Thus, when we have to replace the examples indicated in Figure 1 with enablers and quality standards suitable for a specific context, we will need to identify contextually relevant stakeholders.

Finally, the model also includes two arrows. The first one goes from left to right, expressing the process of extension service delivery, focused on the provision of quality services. The second goes from right to left, expressing the process of quality self-assessment and organizational learning. This means that RE&AS organizations are expected to develop quality improvement strategies that lead to innovations in their service delivery. Analyzing both arrows together, they show a feedback process wherein extension service delivery is evaluated in terms of the presence of the enablers and the fulfilment of quality standards, which leads to a learning, planning and innovational process that will be put into practice in RE&AS delivery in a continuous and never-ending quality improvement loop. These arrows show that quality assessment has to be linked to quality improvement strategies, i.e. evaluate to learn and improve. In this context, self-assessment of the different components of the model and use of Total Quality Management tools can play a key role.

Conclusions

This paper made three main contributions to RE&AS. First, it summarized and discussed scholarly bibliography on RE&AS quality. Surprisingly, and despite the relevance of the topic, no one has written a single article synthesizing and systematically discussing the current literature on the topic until now. Second, some of the most relevant debates on service quality were presented and discussed from the point of view of extension services. Finally, the third and foremost contribution of this paper was its proposal for an integrative theoretical framework to address, manage and improve RE&AS quality.

This paper also led to several interesting reflections and conclusions. First, RE&AS quality has to be conceptualized from different points of view in order to grasp its complexity and multidimensionality. On the one hand, what is described in terms of extension service quality has to be addressed from a perspective of process. Enablers make quality possible. Then, there is the production and delivery of a quality service. And, finally, RE&AS quality also means reaching desired results, including the satisfaction of farmers and other stakeholders. Thus, it is necessary to acknowledge and pay attention to all three of these elements to provide a high-quality extension service, and not merely to one of them. On the other hand, different stakeholders (including farmers) have different expectations, interests and goals, which leads to different perspectives on quality. In consequence, what RE&AS quality is, effectively, will be the result of an agreement or compromise between these different perspectives. Interestingly, it implies that establishing what extension service quality is, is not a technocratic procedure, but a social and complex one that involves negotiation and power issues.

Secondly, these reflections also imply that what defines quality in terms of RE&AS will depend on the particular context at hand, due to the existence of stakeholders with different expectations, interests and goals. Thirdly, following this perspective, extension service quality also ends up
being an inter-subjective, socially constructed concept, which implies that a definition of extension service quality cannot be reached without considering the point of view of different stakeholders. Finally, reflections also lead to acknowledging the importance of assessing the quality of extension services as a means for organizational learning and for the implementation of innovative improvement initiatives.

This paper contains multiple statements on RE&AS quality. Nonetheless, it is a simple proposal that requires further scholarly discussion, proving practical usefulness in concrete contexts. In this sense, it seems to be a first step in the right direction, inviting its audience to seriously and systematically discuss RE&AS quality from an integrative perspective.

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