Identifying categories of service innovation: A review and synthesis of the literature

Hannah Snyder, Lars Witell, Anders Gustafsson, Paul Fombelle, Per Kristensson

1. Introduction

In today's business landscape, service firms must continuously renew their processes and offerings to remain competitive (Thakur & Hale, 2013). Service innovation operates as the engine of economic growth and pervades all service sectors. Spurred by an innovation focus, service firms have grown tremendously over the past decade. Examples of service innovation growth include Internet services (e.g., Twitter and Netflix), industrial giants (e.g., IBM and GE) who have re-vitalized their competitive positions by focusing on customer service, and restaurants (e.g., Chipotle and Starbucks) and other retailers (IKEA and Amazon) who re-define their businesses by creating new customer experiences. Tremendous service innovation growth also occurs in the social services sector, or innovations targeting the under-privileged, (e.g., Mulgan, Tucker, Ali, & Sanders, 2007), and the public sector (e.g., Windrum & Koch, 2008). Despite the considerable attention given to studying service innovation, research still struggles to answer the most basic question: What is service innovation?

Commonly, categorizations addressing degree of change (e.g., radical versus incremental) describe service innovation. However, this approach does not identify what part of the offering qualifies as the service innovation. One traditional view of innovation builds on technological breakthroughs (Schumpeter, 1934; van der Aa & Elfring, 2002). Inferring service innovation only as a technology breakthrough limits the scope and impact of the concept and hinders theoretical development. Arguably, service innovation encompasses a much broader perspective. Ostrom et al. (2010) suggest that service innovation creates value for customers, employees, business owners, alliance partners, and communities through new and/or improved service offerings, service processes, and service business models. Consequently, adding service to innovation introduces new or alternate perspectives. The question is whether new perspectives on service innovation truly provide a better explanation for the growth in services and why a new service succeeds or fails (Witell et al., 2015).

Traditional service innovation categorizations separate radical and incremental innovations (see Gallouj & Weinstein, 1997) and product and process innovations (Vaux Halliday & Trott, 2010). Ostrom, Parasuraman, Bowen, Patricio, and Voss (2015) recommend identifying how various categories of service innovations interrelate (e.g., service-product to service-process). More recent categorizations propose that service innovation differs from traditional innovation perspectives in aspects such as the customer’s changing role (Michel, Brown, & Gallan, 2008), Internet use (Dotzel, Shankar, & Berry, 2013), and new business models (Hsieh, Chiu, Wei, Yen, & Cheng, 2013). Gallouj and Savona (2008) argue that a materiality bias exists in innovation research — ignoring the immaterial aspects — leading to inaccurate measurements.
of the service industry's economic impact and performance. The evidence suggests that ignoring a service innovation's uniqueness leads to underestimating the innovation's impact in the service sector. Further, Gallouj and Savona (2008) question the existing categorizations and suggest a need for new categorizations to better understand the nature of service innovation.

The present study investigates service innovation’s meaning through an extensive literature review and synthesis of the concept's various categorizations. A review of 1046 research articles identifies and defines the various service innovation categories and provides a platform to analyze how these categories help to understand the overall concept. Investigating service innovation categories identifies themes, explores how they differ, and explains how the different themes comprise a whole (MacInnis, 2011). This study contributes to the service innovation literature in two ways. First, analyzing categories provides a different perspective on service innovation. Previous literature reviews primarily employ assimilation, demarcation, and synthesis perspectives to summarize service innovation research (e.g. Carlborg, Kindström, & Kowalkowski, 2014; Coombs & Miles, 2000; Droeghe, Hildebrand, & Forcada, 2009; Ordanini & Parasuraman, 2010). An alternative perspective provides new insights and a greater understanding. Second, this study clarifies “what” a service innovation is – an innovation process output – that contrasts with other literature reviews that concentrate on both the “what” and the “how” of service innovation (e.g. Carlborg et al., 2014; Ordanini & Parasuraman, 2010). Focusing on the “what” of service innovation helps provide an in-depth analysis of the service innovation concept and distinguishes service innovation from related concepts, such as new service development. From 43 service innovation categorizations, four unique themes emerge: (1) degree of change, (2) type of change, (3) newness, and (4) means of provision. Arguably, most service innovation categorizations focus inward and view service innovation as something internally new to the firm. Crucially, the literature poorly addressed how service innovations affect customer value and financial performance.

2. Service innovation

2.1. Defining service innovation

Schumpeter (1934) argues that economic development is driven by innovation. He makes an important distinction between invention and innovation and argues that inventions have no inherent value. Instead, Schumpeter defines innovation as a separate activity through which inventions are carried out in the market for a commercial purpose. Thus, for an invention must be introduced in the market and generate a substantial profit in order to become an innovation. Schumpeter argues the process of developing a new offering must be distinguished from the outcome or the commercialization. Schumpeter (1934 p. 66) defines innovations as the “carrying out of new combinations.” Building on his work, researchers develop the Schumpeterian view of service innovation (see Gallouj & Savona, 2008; Windrum & García-Goñi, 2008). This view emphasizes recombinative innovations as central to service innovation and suggests that they frequently appear in new firms (Gallouj & Weinstein, 1997). According to Toivonen and Tuominen (2009), a Schumpeterian view of service innovation assumes that innovation: (1) is carried into practice, (2) provides benefits to the developer, and (3) is reproducible. Interestingly, Schumpeter (1934) considers customer needs as given. Developers first initiate economic change and then educate users about the new offering's benefits. Implicitly, this development pattern represents an inside-out perspective. Building on a Schumpeterian perspective, Toivonen and Tuominen (2009 p. 893) suggest “service innovation is a new service or such a renewal of an existing service which is put into practice and which provides benefit to the organization that has developed it; the benefit usually derives from the added value that the renewal provides the customers.” Following this reasoning, an innovation must be new to both the developer and a broader set of actors. The Schumpeterian view of service innovation emphasizes the central role of financial returns (Drejer, 2004) but does not account for customer value.

Prior studies use different methods to explain and define service innovation. Whereas some studies used an overall definition to state the meaning of service innovation, other studies include dimensions or categories to define the concept (Gallouj & Weinstein, 1997). An overall definition explains service innovation by describing the innovation’s core characteristics (e.g., Ostrom et al., 2010). For example, the Organisation for Economic Co-operation and Development (OECD) (2005) defines service innovation as launching a new or significantly improved product (good or service) or process, a new marketing method, or a new organizational method in business practices, workplace organization, or external relations. Menor and Roth (2007) suggest that service innovation – either an addition to current services or a change in the delivery process – is an offering not previously available to customers that requires changes in the competences applied by service providers and customers. Frequently, the overall definitions are rather general and suggest some core characteristics are insufficient for identifying service innovation in practice.

Alternatively, a service innovation may involve changes in several dimensions of an existing service. This view follows the Lancastrian view in which a service is based on the provider’s characteristics, client competencies, technical characteristics, and final users’ service characteristics (Gallouj & Weinstein, 1997; Saviothi & Metcalfe, 1984). This multidimensional view is more prominent in recent research (see Paalysahio & Kuusisto, 2008; Zolfagharian & Paswan, 2008). Using changes in dimensions to define service innovation frequently depends on multiple changes to an existing offering. The plethora of dimensions suggests that service innovation is becoming a broader concept and firms can innovate more than prior research suggests.

2.2. Categories of service innovation

Another way to understand service innovation is through categories or classifications that distinguish by innovation type. Each category contains a number of objects that are considered equivalent; therefore, categorization becomes a system comparing how different categories relate to each other (Rosch, Mervis, Gray, Johnson, & Boyes-Braem, 1976). Schumpeter (1934) proposes several different innovation forms: introduction of a new good, introduction of a new production means, and the discovery of a new source of raw materials, new markets, or new organizations. Taking a Schumpeterian view of service innovation, Drejer (2004) emphasizes the dichotomy between product and process as two main service innovation categories. In addition, the radical and incremental innovation dichotomy is a common service innovation categorization that suggests bifurcating innovations based on the degree of change. To use a dichotomy to separate mutually exclusive types of innovation is common. Several benefits exist from developing and using categorizations because they create useful heuristics and provide a systematic basis for comparison and operationalization (Smith, 2002). Lovelock (1983) emphasizes the practical relevance of categorizations in marketing and suggests that distinctions can benefit different types of marketing strategies and management tools. Different marketing and innovation strategies might be relevant for different service innovation categories (Hsieh et al., 2013). However, using different categories in research can be troublesome because operationalizing them might be difficult. Hsieh et al. (2013) argue that most studies using service innovation categorizations do not provide specific examples of the different category types despite the importance of such details. Frequently, categories are neither exhaustive nor mutually exclusive and they are typically based on arbitrary or ad hoc criteria (Smith, 2002). Arguably, discerning these alternative categorizations is essential to gaining a deeper understanding service innovation. The following sections investigate the various service innovation categorizations through a comprehensive literature review.

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3. Method

A systematic review methodology identified research that focuses on service innovation (Tranfield, Denyer, & Smart, 2003), a process that includes several steps. First, the research questions were stated and guidelines developed for collecting the literature. Next, a plan for classifying, describing, and coding the literature was developed. As a final step, the literature was synthesized.

Because this research focuses on reviewing and synthesizing different conceptualizations of service innovation categories, the primary search strategy is to identify conceptual or empirical research articles that include categories of service innovation. To capture this concept, inclusion and exclusion criteria were developed. To be eligible for inclusion in the sample, a broad set of criteria was used to ensure that all relevant research articles are captured: (1) main focus on service innovation, (2) peer-reviewed empirical or conceptual papers, (3) published in English, and (4) full text access (see Fig. 1).

A search was conducted for research articles that include the terms “service innovation” or “innovation in service/es” in their abstract, title, or keywords. These search terms were selected to cover as many relevant research articles as possible. To obtain a full overview of the research field, care was taken to prevent limiting the scope of the research to any particular field, subject, or specific journal. Managerial books and reports were excluded. To remain focused, some concepts that might appear related to service innovation are not included in this review. To be consistent with Schumpeter (1934), new service development (NSD) – sometimes used interchangeably with service innovation – was omitted (Menor & Roth, 2002). Previous reviews of service innovation such as Droege et al. (2009) and Carlborg et al. (2014) do not make this separation and (i.e., they use a classification based on output to classify processes). This study’s focus is on service innovation as an output, whereas the literature on NSD focuses on the development of service innovation.

The literature search was carried out during the spring of 2014, and the initial search identified 1046 articles, of which 956 were in English and 879 existed in full text. All 879 articles were read in full. Although many articles used the term service innovation in the abstract, few defined, conceptualized, or emphasized the concept. Guided by MacInnis’s (2011) framework for conceptual contributions in marketing, a subset of 255 articles was selected for further analysis. This literature review style builds on the differentiation between the conceptualizations of service innovation categories. Drawing on Rosch et al. (1976, p. 383), a category is defined as “a number of objects that are considered equivalent.” A categorization then becomes a system by which different categories relate to other categories. The research both provides a typological framework of service innovation and identifies similarities and differences in the categorizations. Two authors independently read these articles and identified 43 that provided a conceptualization of service innovation using categories (such as radical and incremental). An analysis followed MacInnis’s (2011) process of conceptual thinking—the process of understanding a situation or problem by identifying patterns and key underlying properties. Two authors sorted the identified articles into different categorizations that focus on the main categories. This process continued until the two authors sorted and agreed on the identified categorizations. To be eligible for categorization, a category must have been used in more than one paper. Finally, four alternative category conceptualizations were identified and subsequently investigated.

No agreement exists on a single concept to describe service innovation in the service sector. Instead, the literature uses several concepts. The most common concepts are service innovation (n = 21) and innovation (n = 14). Other concepts, such as health service innovation, services innovation, and experience service innovation appear only in one paper. Because these concepts are similar in their operationalization of service innovation, they were categorized as different facets of service innovation.

Fig. 1. Search strategy to identify articles on service innovation.

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4. Results

4.1. Different service innovation categories

A systematic literature review identified four different categorizations that describe service innovation. These different categorizations are degree of change, type of change, newness, and means of provision.

The most common service innovation categorization addresses the degree of change (n = 17). This categorization includes the classical distinction between radical and incremental innovation extensively used in research. The second most common categorization is the type of change (n = 12). This area includes discussion distinguishing between product and process innovation. The third service innovation categorization examines the service’s newness (n = 4), addressing the offering’s perceived novelty to the innovating firm or the receiving customers. The fourth categorization covers means of provision (n = 4) and addresses how organizations innovatively restructure to provide a new service. Additionally, six articles use categorizations not fitting into any of the other ones. Typically, areas are sector-specific or discuss issues addressed only in one paper. The following sections discuss the four main service innovation categorizations in greater detail.

4.2. Degree of change (radical versus incremental)

The offering’s degree of change is the most common basis for categorizing service innovations. Degree of change includes the distinction between radical and incremental service innovation (see Table 1). Oke (2007) views service innovation as new developments in activities undertaken to deliver core services and differentiates between radical and incremental innovation by investigating offering revisions, line extensions, and new markets. Janeiro, Proença, and Gonçalves (2013) explain radical and incremental service innovations differ due to substantial differences in technology (both current and new) and whether or not consumer needs (existing or new) is met. In contrast, Brown and Osborne (2013) suggest that a transformational (radical) service innovation is a distinctive category of discontinuous change. This change includes a new service, a new policy, a transformed process, or a new configuration of an existing set of relationships to fulfill a task. Thus, Janeiro et al. (2013) and Brown and Osborne (2013) conceptualize radical service innovation quite differently.

The distinction between radical and incremental innovation often identifies the practices that a service firm should adopt to succeed when developing new offerings. For example, a new service’s degree of radical change affects the level of customer involvement (see Gustafsson, Kristensson, & Witell, 2012). The literature is consistent on how the effect of a specific practice or method differs between radical and incremental innovation. However, a gap remains due to limited knowledge about how firms should organize their new service development to succeed with both radical and incremental service innovation.

Gallouj and Weinstein (1997) explain that radical innovation involves creating a completely new offering. The difference between radical and incremental service innovation depends on the degree that new service characteristics differ from the previous offering. Therefore, a radical innovation shares no common elements with the previous offering. A common consequence is that customers must learn new competencies to be able to co-create value through the offering. Following Gallouj and Weinstein (1997), both improvement and incremental innovation suggest limited changes to service characteristics. Incremental innovation adds new elements to the offering without changing the overall offering, whereas improvement innovation improves certain characteristics without any change in the overall offering. Such developments frequently involve interactions with customers and associate with either new or existing services (Oke, 2007).

Recombinative service innovation is another important area and arguably the most common service innovation form (Gallouj & Weinstein, 1997). Recombinative innovations are service characteristic changes that either combine one or more service characteristics or separate the characteristics of a pre-existing service (Gallouj & Savona, 2008). A mobile phone service study demonstrates how companies provide increasing recombinative innovations as the market grows (Corrocher & Zirulia, 2010). This study suggests that recombinative innovation involves less uncertainty than introducing an offering with new characteristics. However, following a recombinative innovation mode, the output can be either incremental or radical.

Table 1:
Studies viewing service innovation as a degree of change in the offering.

<table>
<thead>
<tr>
<th>Author</th>
<th>Context</th>
<th>Concept</th>
<th>Type of study</th>
<th>Content of categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gallouj and Weinstein (1997)</td>
<td>Innovation</td>
<td>Conceptual</td>
<td></td>
<td>Radical, improvement, incremental, ad hoc, recombinative, formalization</td>
</tr>
<tr>
<td>Sundbo (1997)</td>
<td>Service firms</td>
<td>Innovation in services</td>
<td>Conceptual</td>
<td>Radical innovations, large incremental, small incremental, general acts of learning, individual acts of learning</td>
</tr>
<tr>
<td>Chan, Go, and Pine (1998)</td>
<td>Services</td>
<td>Innovation</td>
<td>Empirical, survey (n = 99)</td>
<td>Incremental, distinctive (old-new), distinctive (new-old), breakthrough</td>
</tr>
<tr>
<td>de Vries (2006)</td>
<td>Services</td>
<td>Innovation</td>
<td>Empirical, case study</td>
<td>Radical, incremental, ad hoc, recombinative, formalization</td>
</tr>
<tr>
<td>Lyons, Chatman, and Joyce (2007)</td>
<td>Investment banking</td>
<td>Service innovation</td>
<td>Conceptual, Empirical, interviews (n = 6), survey (n = 101)</td>
<td>Radical, “me-too,” incremental</td>
</tr>
<tr>
<td>Oke (2007)</td>
<td>Services</td>
<td>Service innovation</td>
<td>Conceptual, Empirical, illustrations</td>
<td>Established services, incremental, radical</td>
</tr>
<tr>
<td>Möller, Rajala, and Westerlund (2008)</td>
<td>Healthcare</td>
<td>Service innovation</td>
<td>Empirical, case study (n = 331)</td>
<td>Radical, incremental</td>
</tr>
<tr>
<td>Windrum and García-Goli (2008)</td>
<td>Hotel services</td>
<td>Health services innovation</td>
<td>Empirical, interview survey (n = 253)</td>
<td>Radical, incremental</td>
</tr>
<tr>
<td>Martinez-Ros and Orfila-Sintes (2009)</td>
<td>Service firms</td>
<td>Service innovation</td>
<td>Empirical, analysis of documents (n = 284)</td>
<td>Incremental, recombinative, improvement</td>
</tr>
<tr>
<td>Cheng and Krumwiede (2011)</td>
<td>Mobile operators</td>
<td>Innovation</td>
<td>Empirical, survey (n = 967)</td>
<td>Radical, improvement, noninovative</td>
</tr>
<tr>
<td>Gustafsson, Kristensson, and Witell (2012)</td>
<td>Services</td>
<td>Service innovation</td>
<td>Empirical, survey (n = 967)</td>
<td>Incremental, improvement, noninovative</td>
</tr>
<tr>
<td>Brown and Osborne (2013)</td>
<td>Public services</td>
<td>Innovation</td>
<td>Conceptual</td>
<td>Transformational, incremental, ad hoc</td>
</tr>
<tr>
<td>Harris et al. (2013)</td>
<td>Service firms</td>
<td>Service innovation</td>
<td>Empirical, survey (n = 606)</td>
<td>Radical, incremental, noninovative</td>
</tr>
<tr>
<td>Janeiro et al. (2013)</td>
<td>Franchisors</td>
<td>Service innovation</td>
<td>Empirical, survey (n = 606)</td>
<td>Radical, incremental, noninovative</td>
</tr>
<tr>
<td>Savona and Steinmueller (2013)</td>
<td>Franchisors</td>
<td>Service innovation</td>
<td>Conceptual</td>
<td>Service product, architectural, modification, ad hoc</td>
</tr>
</tbody>
</table>

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4.3. Type of change (product versus process)

The second most common service innovation categorization distinguishes between innovation in products and processes (see Table 2). A survey of 5574 firms distinguishes between innovation in product/service, process, organization, and marketing (Grolleau, Mzoughi, & Pekovic, 2013). On average, most firms innovate using one of these four categories. The Oslo Manual (Organisation for Economic Co-operation and Development, OECD, 2005) employs this categorization method (product, process, organizational, and marketing innovation) providing policy recommendations to support innovation efforts within the European Union. Further, Amara, Landry, and Doloreux (2009) suggest that service innovation is more multidimensional than innovation in manufacturing industries. This work conceptualizes service innovation into six categories: product, process, delivery, strategic, managerial, and marketing. Amara et al. (2009) further suggest that the other four categories (excluding product and process) represent non-technological forms of innovation that largely overlap with organizational innovation. The traditional product versus process distinction suggests that the former relates to new product introduction or significantly improved products, whereas the latter relates to a new or significantly improved production process (Amara et al., 2009).

Further, service innovation divides into interactive and supportive service innovations. Interactive service innovations are external (service concept), whereas supportive service innovations are internal (service production) (Salunke, Weerawardena, & McColl-Kennedy, 2013). This conceptualization focuses on value co-creation and customer experience. Interactive service innovations potentially create sustainable competitive advantages, whereas supportive service innovations offer no such direct effect. Innovative changes that the customer discerns and experiences (interactive service innovations) provide avenues for implementing a superior value-creating strategy difficult for competitors to duplicate (Salunke et al., 2013).

4.4. Newness (new to the market versus new to the firm)

The third service innovation conceptualization requires the service to be “new” for either the firm or the customer (see Table 3). However, understanding newness is rather ambiguous. Product innovation research views newness as the difference between a new and an existing offering (Zirger & Maidique, 1990). New market offerings refer to service innovations that require training or extra effort by customers for product adoption. This category suggests that the innovation’s success depends on changes in customer behavior (i.e., viewed from a market point of view). Chen, Tsou, and Huang (2009) identify two service innovation types with different degrees of newness: new service channels for existing services (delivering the same service in a new way), and new service channels for new services (delivering new service in a new way). Others view service innovation as service offerings and processes that are new to the firm or to the market (customer) (e.g., Mansury & Love, 2008; Thakur & Hale, 2013). Differentiating newness from the firm’s or the market’s perspective is a core distinction constituting a service innovation. Traditionally, market newness is central to an innovation; however, the business press and policymakers are changing the focus to being new to the firm (Toivonen & Tuominen, 2009). Toivonen and Tuominen (2009) argue that “newness” is a relative concept, and “new to a firm” suggests that a service firm adopting or copying existing services becomes an innovator.

4.5. Means of provision (technology versus organization)

The fourth conceptualization considers the resources used to operationalize the service innovation as the key point of departure. Viewing service innovation as a change within the organization often is one service innovation category. However, several research articles view the organization as the central mechanism for service innovation (see Table 4). Dotzel et al. (2013) introduce e-innovations and p-innovations to emphasize the key role that the Internet and human interaction plays in service innovation. E-innovations are new services that provide customer benefits primarily through the Internet, whereas p-innovations are new services delivered primarily through human interactions. Given e-innovation’s scalability, managers focus their attention on e-innovations rather than p-innovations. The focus on e- and p-innovations resembles the discussion in service research regarding high-touch versus high-tech services. He and Abdous (2013) further divide innovations into service, technological, and administrative innovations.

Yoon, Kim, and Rhee (2012) do not distinguish between technology and the organization; however, they identify three service innovation types: (1) new or improved service products, (2) new or improved ways to design and produce services, and (3) organizational innovation and management of the innovation process. This conceptualization provides alternative ways to realize organizational innovation, suggesting that innovation can occur in the production process, the development process, and the actual “organizing” of the firm.

4.6. Other categorizations

In addition to the four categorization types previously described, six articles identify service innovation in ways that do not fit into any of the
Table 3
Studies viewing service innovation as newness.

<table>
<thead>
<tr>
<th>Author</th>
<th>Context</th>
<th>Term</th>
<th>Type of study</th>
<th>Content of categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chen et al. (2009)</td>
<td>Financial firms</td>
<td>Service delivery innovation</td>
<td>Empirical, survey (n = 298)</td>
<td>New service channels for existing customer service, new service channels for new customer service</td>
</tr>
<tr>
<td>Alam (2012)</td>
<td>Service firms</td>
<td>Service innovation</td>
<td>Empirical, survey (n = 274)</td>
<td>New-to-the market services, new-to-the-firm services, new delivery processes, service modification, service line extension, service repositioning</td>
</tr>
<tr>
<td>Thakur and Hale (2013)</td>
<td>Service industries</td>
<td>Service innovation</td>
<td>Empirical, survey (n = 315)</td>
<td>New-to-market innovation, new-to-firm innovation</td>
</tr>
</tbody>
</table>

5. Discussion: altering the view from internal to external value

The results reveal four themes for service innovation categorizations: degree of change, type of change, newness, and means of provision (see Table 5). These categorizations emphasize different service innovation traits and explain why researchers come to different conclusions about whether or not innovation occurs in service firms. Prior research primarily categorizes either product versus process innovations or radical versus incremental innovations (Gallouj & Weinstein, 1997). Current research adds new categorizations that are either sector specific or that emphasizes specific traits but do not integrate or are not positioned against existing categorizations, and they fail to show their superiority. The following section discusses the present use of categories to understand service innovation and how using these categories assist in developing the research field.

5.1. Does innovation occur in service firms?

Research debates whether or not innovation actually occurs in service firms (Sundbo, 1997). Many conceptualizations of radical service innovation concern a major change in service characteristics (see Gallouj & Weinstein, 1997) that frequently emphasizes an internal perspective (e.g., resources operationalize the service). In contrast, a paucity of research suggests that radical service innovation stands out through the newness of services and/or the newness of markets (Harris, McAdam, McCausland, & Reid, 2013). These claims suggest that service innovation should be new from an external perspective (e.g., resources operationalize the service). From a Schumpeterian perspective, customer needs are a given or an unproblematic base for service innovation (Schumpeter, 1934). This statement contradicts recent developments in the service-dominant logic that stress the importance of value (Vargo, Lusch, Akaka, & He, 2010). Using an internal perspective on service innovation, one risk is that the customer does not view a service based on technology advancement as new. Therefore, newness might be best viewed from the customer’s point of view. Only the customer can evaluate the value of an offering. As Vargo and Lusch (2004) conclude, value comes from usage and cannot be embedded into the production of a new good or service. Michel et al. (2008) confirm this notion by suggesting that customer roles – buyer, payer, or user – must change for new services to be viewed as innovations.

5.1.2. What is the customer’s role?

This research concludes that newness is frequently viewed from the firm’s perspective. Therefore, services new to the firm that exist among competitors or in different markets still are viewed as service innovations. Geographical or sector perspectives should determine an innovation’s degree of newness or radicalness (Toivonen & Tuominen, 2009). Further, a truly radical innovation typically means “new to the world,” whereas incremental innovations probably are “new to a region or a nation” or “new to a sector.” The emphasis on “new to the firm” in service research strengthens the claim that service innovation frequently occurs through cumulative small changes in the offering. Giving a real meaning to the concept of newness is important to position newness as a theme in the theoretical development of the service innovation concept.

5.1.3. What is the role of financial returns?

Service innovation research lacks a focus on the new service’s market success. In addition scant attention is paid to customers’ experiences of value. A firm’s return on investment (financially) often is neglected. Surprisingly, in this study’s sample, service innovation is not discussed in terms of market success. The frequent neglect of service innovation’s value-creational effect on the beneficiary is peculiar. A Schumpeterian view of financial returns is disregarded; instead, the discourse focuses on the newness of the service characteristic (e.g., Gallouj & Weinstein, 1997). For both the customer and the firm, the research appears to focus more on the innovation’s characteristics rather than the value that the innovation is designed to create. Neglecting value may occur...
because studying or receiving unbiased information on this issue is challenging and difficult. An innovation's financial value is not completely forgotten because the literature typically uses business model innovation as a service innovation category (e.g., Hsieh et al., 2013). The emerging conceptualization of business model innovation and the ability to create a new market (e.g., Hsieh et al., 2013) serve as a proxy for market success or financial value. Plausibly, the limited discussion on the market success of service innovation indicates that such success is the result of social innovation, and innovations relate to the Internet and mobile services. Frequently, such e-innovations (Dotzel et al., 2016) improve the efficiency of service provisions or they are provided for free to improve the experience. In such service sectors, market success and financial value require alternative measures, such as the coefficient of a viral loop or the speed of market growth. Measuring the results of service innovation is a step toward showing the importance for firms, industries, and society in general.

5.2. Failure to distinguish product and process in service innovation

Gallouj and Savona (2008) argue that the difference between product and process presents a certain degree of ambiguity for service innovation attributable to intangibility and co-production characteristics. The product lacks physical output, but the innovation frequently is a process, a sequence of operations, or a solution to a problem. Further, separating what a product is from the service innovation process becomes difficult; arguably the distinction has no meaning (Gallouj & Savona, 2008). Hsieh et al. (2013) support this view by reporting a significant difference in the ratio between product and process innovations (550 to 27), suggesting a separation problem between product and process. This distinction likely still exists in service innovation research attributable to the separation between “how” and “what” in basic service marketing models (Grönroos, 2011). Frequently, surveys include this distinction to investigate innovation in a region or country. The product and process distinction provides an opportunity to compare manufacturing and service sector innovations. Using the same categories for all parts of the economy is convenient for policymakers; however, inconsistent study results suggest that the distinction is difficult to operationalize and not suited for service innovation research.

5.3. Using categories to understand service innovation

The different categorizations provide diverse perspectives on service innovation (see Table 5). Degree of change and newness emphasize changes in the offering without specifying which resources change. The focus is on the outcome of the change and the two categorizations highly correlate. In other words, a radical service innovation frequently indicates new to the market, whereas an incremental service innovation frequently indicates new to the firm. Moving forward, one might argue that the true meaning of a radical service innovation should be new to the world; however, this meaning has yet to be seen in service research.

The remaining two categorizations (type of change and means of provision) view service innovation through specific types of resource changes. These two categorizations are not correlated, suggesting that a process change can be achieved through either organization or technology. Although several researchers use more than two categories (e.g., Alam, 2012; Khan & Khan, 2009), the strength in using categories is simplicity. The frequent use of the simple distinction between radical versus incremental innovation and product versus process innovation supports this notion. The main concept relating to categories is to create a language that is easily understood and communicated (e.g., Rosch et al., 1976). These categorizations are widely used and applicable to a broad range of offerings, including both goods and services.

### 6. Conclusions

The present research suggests that service innovation has become an imprecise and dispersed theoretical concept but remains important for explaining the service sector’s growth. This paper identifies four categorizations of service innovation and shows the benefits and drawbacks of each one. The service innovation categorizations depart from changes in either the offering or the resources and depend on the degree of change, type of change, newness and means of provision. In particular, the different categories are radical versus incremental, product versus process, new to the firm versus new to the market, and technology versus organization. The literature reports extensive use of the product–process distinction (Gallouj & Savona, 2008); however, the difficulties in separating product from process in service research limit this dimension’s usefulness.

One main study implication is the proposition that a service innovation should be viewed as changes in value. The Schumpeterian view of service innovation emphasizes value (Schumpeter, 1934). However, previous research largely neglects the effect on the customer’s perception of value. Although previous research briefly references this notion (e.g., Michel et al., 2008), most research focuses on assets connected to the offering’s characteristics. Because value creation and customer focus are central, service innovation seems to naturally focus more on the value co-creating experiences of the benefitting party(s). Similarly, the financial value captured by service innovating firms rarely is considered. Service innovations seem to miss the goals due to an inward focus on service characteristic changes for a specific firm. Reinstating the notions that service innovation implies “newness” of value co-creation to the market or the world (i.e., customers) and financial value extends from the introduction of a service to success in the market is needed to identify and understand true service innovations.

Schumpeter (1934) focuses on both the outcome and the process of service innovation. He emphasizes that most innovations combine available products and services. On the other hand, Gallouj and Weinstein (1997) identify recombinative innovation as a key innovation mode. Arguably, including both the concept’s outcome and process hampers the theoretical development of the service innovation concept. For the customer, how the service’s new characteristics are developed to existing core characteristics. Similarly, the financial value captured by service innovating firms rarely is considered. Service innovations seem to miss the goals due to an inward focus on service characteristic changes for a specific firm. Reinstating the notions that service innovation implies “newness” of value co-creation to the market or the world (i.e., customers) and financial value extends from the introduction of a service to success in the market is needed to identify and understand true service innovations.
developing individual firms and the economy as a whole; however, this study shows disparate views about service innovation's meaning. The literature review shows that a service innovation range from offering the world something new to an improvement of a firm's single service activity. Clearly, service innovations need to be understood from the perspective of how they affect the customer and the firm.

References


References


