

# **Assessing value-in-use from an ethnographic perspective: An Ethnographic Case Study**

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## **ABSTRACT**

Nowadays the concept of value-in-use has become increasingly important. Businesses are continuously striving to capture their customer needs in order to attract future customers, retain existing customers, and increase business performance through value delivery. In the academic world, value-in-use is an uprising concept. Although there are efforts made understanding value-in-use from an ontological point of view, there seems to be haziness around the methodological and epistemological grounds of value-in-use. Consequently, there has so far not been probed into the appropriate methods including the epistemological consequences of studying value-in-use. Therefore, an ethnographic perspective is deployed to clarify this omission by studying value-in-use in the context of amateur-level football on artificial grass pitches. Obtrusive and unobtrusive data collection methods are used in order to gather etic and emic knowledge. Patterns are identified that lead towards useful value-in-use constructs. In short, this study demonstrates how and why an ethnographic perspective can enhance and understand customer value and value-in-use.

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## **Keywords**

Ethnography, Value, Value-in-use, Ethnographic Case Study, S-D logic.

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# 1. INTRODUCTION

## 1.1 Framing the research problem

Companies are continuously striving to improve their way to create value for their customers and differentiate their service offerings in order to attract and retain customers as well as making profit (Shaw & Ivens, 2002). Prahalad and Ramaswamy (2004) point out that there appears to be a shift in involving the customer in the value creation process, in which value is “co-created”. More recently, Vargo and Lusch (2004) have developed a new perspective by introducing the concept of value-in-use. Where previously value was seen as a trade-off between cost and service quality, the new perspective focuses more on the serviceability of the products and the services firms offer. In this process, understanding (customer) value plays an important role. Also, throughout the existing literature it is clear that there is an increased understanding and recognition that value is created through the customer’s own process (Möller, 2006; Vargo & Lusch, 2004, 2008). Other authors (Payne, Storbacka, & Frow, 2008; C. Prahalad & Ramaswamy, 2008; Woodruff & Flint, 2006) accept this view in which they state that the customer is always a co-creator of value and value-in-use, as opposed to the previous view in which value is embedded in tangible goods at the factory gate (Macdonald et al., 2011). Value-in-use is defined by Macdonald’s et al. (2011, p. 167) as “*a customer’s outcome, purpose or objective that is achieved through service*”. Central in this view is that value arises in the customer’s or end-user’s space and through the usage process (Baines et al., 2007).

Recently, it has been pointed out that companies are facing challenges to understanding what it is that customers value (Macdonald et al., 2011). As Anderson & Narus (1998, p. 55) point out: “*gaining a comprehensive understanding of the value of a market offering in a particular customer setting may appear monumentally difficult*”. Knowing this, and keeping the shift (of how value is conceptualised nowadays) in mind, causes the rise of concepts like customer experience and usage (i.e. value-in-use). As various authors point out (Anderson & Narus, 1998; Ballantyne & Varey, 2008), it is of crucial importance for companies to involve their customers and end-users in the value-creation process since they are considered to be the “producers” and consumers who determine what is of value. This is also in line with the service-dominant logic (S-D logic) in which it is stated that every firm, whether it is a service or product firm, can be a service firm (Grönroos & Voima, 2013; Vargo & Lusch, 2004). In the research of Stauss et al. (2010), the customer-dominant logic (C-D logic) seems to be put in the forefront. The difference between the S-D logic and the C-D logic is subtle, but the latter focuses more on the customer only, instead of the service as a whole (Stauss et al., 2010). Therefore, the focus in this research will lie on the S-D logic.

However, despite the emerging stream of literature emphasising the importance of understanding customer value from a value-in-use perspective, there is little common understanding about appropriate methods to capture value-in-use. Previously, some research was dedicated to the empirical assessment of value-in-use. For example, Macdonald et al. (2011) conducted a research to examine value-in-use through in-depth interviews. Also,

Gummerus and Pihlström (2011) conducted research trying to grasp value-in-use through face-to-face interviews.

Despite the efforts made to provide a solid ontological basis for the concept of value-in-use, there is little agreement about epistemological and methodological ramifications of grasping value-in-use empirically. This is in line with Grönroos and Voima (2013) and Stauss et al. (2010) who call for appropriate and novel methods in spite of the warning that there will be no universally valid method to capture value-in-use (Bruns & Jacob, 2014).

In responding to this call, we adopt an ethnographic perspective on grasping value-in-use in practice. Ethnography is by definition mainly concerned with the “lived experience” of human actors in everyday habitualized situations (Herbert, 2000; Van Maanen, 2011; Visconti, 2010) either through obtrusive data collection techniques or unobtrusive ones (Visconti, 2010). Researchers like Arnould and Wallendorf (1994) and Arnould and Price (2006) are known for their contribution in the marketing area using an ethnographic perspective. They describe approaches towards market-oriented ethnography on three different levels: macro, micro, and meso. This marketing-oriented ethnography (also known as market-oriented ethnography) refers to an ethnographic focus on the behaviour or people shaping a market for a product or service (Arnould & Wallendorf, 1994, p. 484). Also Kozinets (2002) conducted research on market-oriented ethnography in which they developed “netnography”, an online marketing technique for providing customer insight.

Although we acknowledge that there is not one best method to grasp value-in-use, we suggest that an ethnographic perspective comes closest to understanding and documenting the everyday practices of customers when using products and services of all kind. In other words, an understanding of value-in-use cannot be provided by relying on positivistic approach whose primary aim is to explain phenomena but requires probing into alternative research paradigms in qualitative research aimed to understand phenomena (Guba & Lincoln, 1994).

## 1.2 Goal

This research will be applied to artificial grass pitches for football in order to examine, through the value-in-use perspective, how football players experience artificial grass. As a result, a better understanding can be gained into the value-in-use perspective including its different categories leading to the case that companies can better comprehend and anticipate on customer value. Moreover, this research attempts to clarify the haziness around the methodology of measuring value-in-use. Hence, this research aims to build a proper methodology on how value-in-use can be assessed. This leads to the following research question:

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*How can value-in-use be grasped from an ethnographic perspective?*

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In this research, implicitly the questions of “what is value?” and “what is value-in-use?” will be answered. Moreover, different research paradigms and the foundations of ethnography will be thoroughly explained. In the previous paragraphs, the research

problem was framed, the goals were set and the relevance will be pointed out. In the next chapter, a theoretical background will be handed out followed by the Ethnographic Case Study (ECS). Finally, a discussion will take place followed by a conclusion.

This research obtains an exploratory mind-set (Babbie, 2009) since it aims to develop a method on how a certain topic or phenomenon (in this case value-in-use) can be investigated. Moreover, the ECS process has been chosen because it is suitable for theory generation according to Visconti (2010).

### 1.2.1 Theoretical relevance

Several researchers have already highlighted the importance of value-in-use. For example, Vargo and Lusch (2008) implicitly states that the shift from the goods-dominant logic (G-D logic) towards the S-D logic indirectly means that the concept of value has become more important. Although the amount of literature devoted towards value-in-use and end-user needs is still lacking according to Gummerus and Pihlström (2011), this research more specifically focuses on the link between methodology and theory, in essence: how value-in-use can be measured and assessed. An ethnographic perspective will be taken in order to clear up the fuzziness around the methodology on how to investigate and assess value-in-use assuming that the existing paradigms do not properly fit value-in-use. This ethnographic perspective allows us to dig deep into the end-users' world and experience. Knowing this, it can be stated that this research contains a high degree of theoretical relevance.

### 1.2.1 Practical relevance

Companies are continuously trying to understand their customers and end-users in order to meet their needs. Recent literature points out that the customer/end-user is always a co-creator of who co-creates value "in use" (Macdonald et al., 2011). Instead of "pushing" value towards the customer and end-user, firms are "providers" that make the value-in-use process of the customer/end-user possible. This is often not recognised by organisations, which contradicts with the marketing literature nowadays. At numerous of companies, it is the case that end-user needs are not clear and the concept of value-in-use is not recognised. In order to give firms a clear view of the end-user needs, it is of practical importance to investigate the value-in-use created by them. This is done through the lens of the S-D logic.

## 2. THEORY

In this section of this paper, further will be elaborated on the different theories used in this research. Firstly, (customer) value will be described. Value will be seen through the lens of the G-D logic, but more importantly, through the S-D logic. Also, emphasis will be put on what drives value for customers and end-users. Secondly, the concept of value-in-use will be thoroughly described. Besides this, previous studies that attempted to measure value-in-use will be discussed. Finally, ethnography will be further explored.

### 2.1 Value

The importance of value can be clearly seen in the amount of literature that is devoted to it. As Woodruff (1997) and Ulaga

and Chacour (2001) stated, firms are looking for all kind of ways to deliver superior customer value. Knowing where customer value resides has become increasingly important because this results in greater levels of customer satisfaction, which has positive impact on all kinds of aspects: customer loyalty and retention, positive word-of-mouth, competitive position, and ultimately higher market share (Anderson & Narus, 1998; Ulaga & Chacour, 2001). Therefore, it is important to know how value is defined. However, because of the fact there are several research streams and different views, it is hard give one definition that captures the overall picture. Through the eyes of Zeithaml (1988), there are four basic definitions of what value comprises. Firstly, value is related to price: the lower the price, the higher the value. Secondly, value is achieved when every need or want is fulfilled by the purchase of a product. His third view of value is that it is a calculation of quality minus the price paid for the product or service. Finally, Zeithaml (1988, p. 13) states that "*value is what I get versus what I give*". This last conceptualisation of value brought a further rise towards a multidimensional value concept that focuses more on actions and experiences (Babin & James, 2010). Researchers like Babin, Darden, and Griffin (1994) further explored this multidimensional approach in which they distinguished two types of value: utilitarian value and hedonic value. Utilitarian value is a consequence when a consumer evaluates a consumption activity as successful in the sense a desired end result is achieved (Babin & James, 2010). Hedonic value results from a customer's experience of a consumption activity which is perceived as gratifying. Anderson and Narus (1998, p. 6) define value as "*the worth in monetary terms of technical, economic, service, and social benefits a customer company receives in exchange for the price it pays for a market offering*". According to Woodruff (1997), value through the perspective of the customer is a subjective assessment of both positive and negative consequences of using a product or a service. On the other hand, Grönroos (2011, 2014) states that value means that "*a customer/user 'feels better off' after being supported by a given service provider*".

### 2.1.1 Value drivers

By only giving a couple of conceptions of value, it is clear there are different views about what value is and how it is defined. The different value drivers are also widely described by several researchers. Kotri (2006) divides value into several drivers: product quality, quality of customer service processes and personnel, brand image and emotions based quality. These drivers can be used to categorise customers' needs and make it easier for firms to understand their needs. Also, Holbrook categorises value into different drivers, which are described in the table below. Holbrook (2006) sees (customer) value as an interactive process between an object and a subject, which can be in the form of a product and customer. The consumer experience is vital in this case which implicitly means that all products are services leading to the erosion of borders between different marketing conceptions (e.g., service marketing vs. other kinds of marketing) (Holbrook, 2006). Within his typology of customer value, the different dimensions can be distinguished by whether it concerns *extrinsic value* (where the product or service serves as an instrument to a further end) or

*intrinsic value* (where the product or service is being appreciated for its own sake). The second axis is divided into *self-oriented value* (meaning a product or service is being valued because it has a positive effect on the person itself, or how he or she responds to it) and *other-oriented value* (meaning a product or service is being valued because it has a positive effect on others, or how they respond to it). *Economic value* is described by Holbrook (2006) when a product or consumption experiences that serve as a means to a consumer's own objectives. *Social value* occurs when one's own consumption behaviour serves as a means to shaping the responses of others, and *hedonic value* is seen as value that arises from someone's own pleasure in the consumption experiences appreciated for his or her own well-being as end in itself (Holbrook, 2006). Finally, through Holbrook's view, *altruistic value* entails a concern for how someone's own consumption behaviour affects others in which this experience is viewed as a self-justifying end-in-itself. These sub dimensions will be used in this paper as a guidance in making distinctions in value.

(James, 2012; Vargo & Lusch, 2004). Within this perspective, service is defined as the application of one's resources for the benefit of another (James, 2012). Ballantyne and Varey (2008, p. 2) describe value as an interactive process of "*doing something for someone*" that is valued. This is also partly mentioned by Grönroos (2010) in which he stated that within the S-D logic, the supplier is a provider towards the customer in the sense they enable the customer to create value.

This shift in the concepts of marketing results in the case that customers are seen as both producers and consumers who determine what is of value (Ballantyne & Varey, 2008). A firm's role is to provide the customer or end-user in the process of value creation through providing services and goods that deliver service. This process can be seen as an interactive process that is mainly managed by marketers. Within both perspectives of marketing, a distinction has been made between *operant* and *operand* resources. Where operant resources refer to the skills and knowledge a firm possesses in order to create

	<i>Extrinsic</i>		<i>Intrinsic</i>	
	Economic value		Hedonic value	
<i>Self-oriented</i>	Efficiency (e.g. convenience)	Play (e.g. fun)		<i>Active</i>
	Excellence (e.g. quality)	Aesthetics (e.g. beauty)		<i>Reactive</i>
	Social value		Altruistic value	
<i>Other-oriented</i>	Status (e.g. impression management)	Ethics (e.g. justice)		<i>Active</i>
	Esteem (e.g. possession)	Spirituality (e.g. sacredness)		<i>Reactive</i>

Table 1 - Value drivers (Holbrook, 2006)

In the marketing literature, there are two main value perspectives, namely the goods-dominant logic (G-D logic) and the service-dominant logic (S-D logic). These will be discussed in the next section.

### 2.1.2 Dominant value perspectives

Previously, the value delivery was done through providing tangible resources to customers (Vargo & Lusch, 2004), which is in line with the G-D logic. This "old way of thinking" tends to only assess the customer value on the basis on what the company provides (Martinez et al., 2011). The main focus from the firm's view is to maximise operational efficiency (Svensson & Grönroos, 2008). Recently, there appeared to be a shift from the G-D logic towards the S-D logic where value is being delivered through providing a service and through intangible resources. The latter, which is the "new way of thinking" according to Martinez et al. (2011), focuses more on the customer experience. Vargo and Lusch (2004) state that the S-D logic is more profound in the world nowadays since service is of greater importance to customers and end-users. This perspective puts value in the position of a firm doing something for the benefit of the customer, which results from a service

sustainable competitive advantage (SCA), operand resources are only of value when acted upon (via operant resources) to create something of superior value (James, 2012; Vargo & Lusch, 2008). The latter is more in line with the traditional G-D logic, which argues a firm can create SCA through the delivery of operand resources. On the other hand, the S-D logic mentions that a firm can only create SCA through their skills and knowledge they developed through the years. Knowing this, it can be stated that the shift in these two marketing perspectives is linked to the shift in the way of thinking related to operant and operand resources.

In this research, the S-D logic will be seen as the most dominant marketing perspective because it is in line with the concept of value-in-use and extensively recognised by researchers such as Vargo and Lusch. Further will be elaborated on value-in-use in the next section of this chapter.

## 2.2 Value-in-use

The importance of recognising and understanding the concept of value-in-use has been recognised by different researchers (Flint & Mentzer, 2006; Martinez et al., 2011; Vargo & Lusch,

2004, 2008). The main reason why value-in-use arose is because of the rise of the S-D logic. Within the S-D logic, value is determined by the customer, based on value-in-use which results from the service (James, 2012). More specifically, the interaction between the firm and customer is most important. Firms are only able to develop and improve value propositions, but the actual value creation lies with the customer (Vargo & Lusch, 2004). This conceptualisation is at the heart of value-in-use.

There are different definitions and views of value-in-use. Firstly, Vargo and Lusch (2004, p. 7) state in their research that “value is perceived and determined by the consumer on the basis of “value in use”. Value results from the beneficial application of operant resources sometimes transmitted through operand resources”. As mentioned previously, Vargo and Lusch (2004) also state that firms can only make value propositions.

Secondly, Ballantyne and Varey (2006) agree with Vargo and Lusch (2004) in the sense that customers are co-producers of value. Operand resources cannot have embedded value because they only contain value to the extent they serve customers’ needs (Ballantyne & Varey, 2006).

Thirdly, Sandström, Edvardsson, Kristensson and Magnusson (2008) are in line with the view of Vargo and Lusch (2004). They emphasise the missing link between the experience and value-in-use. Hence, they define value-in-use as the following:

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*“Value-in-use is the evaluation of the service experience, i.e. the individual judgment of the sum of all the functional and emotional experience outcomes. Value cannot be predefined by the service provider, but is defined by the user of a service during the user consumption”* (Sandström et al., 2008, p. 120)

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In their research, a framework has been developed that distinguishes two kinds of value proposition: functional and emotional. These propositions will influence the value-in-use experienced by the customer. Central in this frameworks stands how value-in-use is influenced and related to the service experience. Another definition of value-in-use is given by Martinez et al. (2011):

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*“Value-in-use is the value customers get through the experience, consumption and the use of the product or service. It determines the real value a customer receives and the key reasons why the customer is or could be retained”* (Martinez, Lockett, & Toossi, 2011, p. 4)

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In this view, the customer is seen as the “co-creator” of value in which he/she creates value “in-use” (Macdonald et al., 2011; Woodruff & Flint, 2006). Firms should continuously optimise the usage process of customers through improving their value proposition and service offering. Value-in-use in this case bridges this gap between the firm’s service quality and the relationship outcome on the other according to Macdonald et al. (2011). In their research, the importance of the usage process is pointed out since it is a good indicator of the customer’s quality assessment and therefore crucial in this research.

A final definition is given by Macdonald et al. (2011):

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*“Value-in-use is the customer’s outcome, purpose or objective that is achieved through service”* (Macdonald, Wilson, Martinez, & Toossi, 2011, p. 671)

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It is clear there are different conceptions about value-in-use. The figure below shows how value-in-use is related towards firms and their value propositions. In this research, the value-in-use and its categories stand central and thus is where the emphasis lies. This framework is developed through several conceptualisations from existing literature. The different value drivers can be seen and also the factors that influence the value-in-use (usage and experience). As Sandström, Edvardsson, Kristensson, and Magnusson (2008) point out in their research, there is an individual filter that decides how individuals experience the usage and experience of the product or service. Often, firms only recognise customer needs. However, this is just “a tip of the iceberg”. Hence, as sketched in this figure below, value-in-use comprises the overall picture. This framework will be used as a tool throughout this research.

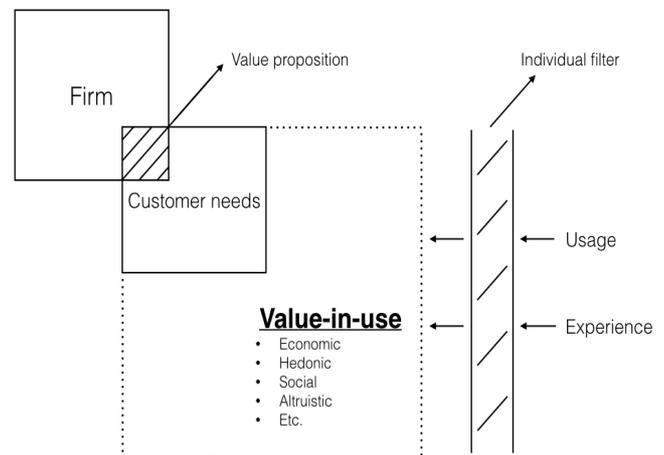


Figure 1 - Value-in-use framework

### 2.2.1 Previous studies

As mentioned previously, value-in-use is thoroughly studied to conceptualise it properly. Authors like Grönroos, Vargo and Lusch, Ballantyne and Varey investigated the concept of value-in-use. However, little research is being done in practice. Firstly, Heinonen and Strandvik (2009) examined the development of an approach for monitoring customer-experienced value of e-service with a value-in-use perspective. Through online questionnaires they attempted to investigate the users’ value experience on a travel agency website. Secondly, Macdonald et al. (2011) conducted a research trying to assess value-in-use by looking at the usage process and service quality. They investigated a maintenance service provider in which they conducted interviews to build a conceptual framework for the assessment of value-in-use. Later on, Gummerus and Pihlström (2011) focused on the context and value-in-use in their research. A total of 85 mobile service users were interviewed through the Critical Incident Technique (CIT), which is “a flexible set of principles which must be modified and adapted to meet the specific situation at hand” (Gummerus

& Pihlström, 2011, p. 525). In 2014, Bruns & Jacob looked at a method for analysing the usage processes and capturing the value-in-use. They adapted the Reperatory Grid Method (RGM), developed by Kelly (1955), which helps to capture the structure and content of subjective, complex perceptions in order to identify value dimensions which characterise value-in-use (Bruns & Jacob, 2014). Their own method, namely the Process-Related RGM (pRGM) focuses more on the S-D logic, value-in-use, usage processes, and value aspects. The traditional RGM method is more suitable for the G-D logic, according to Bruns and Jacob (2014). It is obvious that value-in-use has only been empirically investigated in the last five years. The following scheme, summarises the studies mentioned previously.

This research tries to grasp how value-in-use can be measured. The existing paradigms seem to be old-fashioned in the sense that building a theory or method on how to grasp value-in-use does not fit within the existing paradigms. Positivism as well as postpositivism both focus on explanation. This is in contradiction with this research in which there is a call for a method on how to measure value-in-use. Also, critical theory does not fully support this because of the fact it aims to reconstruct a topic based on previously held constructions (Guba & Lincoln, 1994). Furthermore, the inquirer should a priori understand what transformations are needed (Guba & Lincoln, 1994), which is not the case in this research. This research is new to the world, implying there is nothing yet to criticise about making it unsuitable for the critical theory. On

<i>Author(s)</i>	<i>Topic</i>	<i>Empirical setting</i>	<i>Method(s)</i>
Heinonen and Strandvik (2009)	The development of an approach for monitoring customer-experienced value of e-service with a value-in-use perspective	Users' value experience of a travel agency website	Online-questionnaires
Macdonald et al. (2011)	Assessing the usage process quality and service quality	Maintenance service provider	Interview-based
Gummerus and Pihlström (2011)	Context and value-in-use in mobile services	Mobile service users	CIT: personal face-to-face interviews
Bruns and Jacob (2014)	Development of a method for analysing usage processes and capturing value-in-use	Smartphone usage	pRGM: interviews

Table 2 - Previous studies value-in-use

## 2.3 Methodology for capturing value-in-use

### 2.3.1 Research paradigms

In the past, there were four general research streams known in qualitative inquiry which are positivism, postpositivism, critical theory and related ideological positions, and constructivism (also known as naturalism) (Guba & Lincoln, 1994). In their research, it is stated that research paradigms are dominant over research methods. A paradigm is defined as *“the basic belief system or worldview that guides the investigator, not only in choices of method but in ontologically and epistemologically fundamental ways”* (Guba & Lincoln, 1994, p. 105).

Guba and Lincoln (1994, p. 108) describe the different paradigms by answering each the following three questions for each paradigm:

1. *“The ontological question: What is the form and nature of reality, and therefore, what is there that can be known about it?”*
2. *The epistemological question: What is the nature of the relationship between the knower or would-be knower and what can be known?*
3. *The methodological question: How can the inquirer go about finding out whatever he or she believes can be known?”*

Table 3 gives an overview of the different paradigms with their characteristics.

the other hand, the idea that inquiry should be value free (or not value free) (Guba & Lincoln, 1994) suits well with this research since the primary *“thick descriptions”* in this research are very broad and are not restricted by limitations. Constructivism seems to be most closely related since its inquiry aim is to understand a phenomenon. The hermeneutical basis of its methodology supports the idea that information could elicit only through the interaction between and among investigator and respondents (Guba & Lincoln, 1994). The relative powerless emic as well as the more powerful etic side of this interaction should be equal according to Guba and Lincoln (1994). They also state that the inquirer is seen as the facilitator of the inquiry process which seems to be in line with the data inquiry in this case. This promoting role of the researcher allows to gather first-order data and later on transform it to second-order data. Moreover, the idea that inquiry should be value free also accounts for constructivism. However, constructivism seems to mainly focus the understanding of existing topics. In this case, no certain method exists to assess value-in-use properly. So, the existing paradigms do not seem to be fully in line with the assessment of value-in-use. Hence, ethnography is chosen to clear things up since it sort of lies in the middle of constructivism and critical theory. It uses characteristics of both paradigms to frame the assessment of value-in-use. This perspective will be described in the next paragraph. In the last row of Table 3, the studies discussed in paragraph 2.2.1 are categorised into the different paradigms. The study of Bruns and Jacob (2014) is difficult to categorise

but on the basis of the nature of knowledge, it is categorised within the critical theory paradigm. This because Bruns and Jacob (2014) build their research on historical knowledge, which are mainly the concepts developed by Vargo and Lusch (2004). The study of Heinonen and Strandvik (2009) is categorised within the constructivism paradigm because the focus lies on the “reconstruction” (Guba & Lincoln, 1994, p. 112) of a framework to capture customer-experienced value. The research of Gummerus and Pihlström (2011) and Macdonald et al. (2011) are also categorised into the constructivism because both studies aim to understand a certain phenomenon. This phenomenon refers in the case of Gummerus and Pihlström (2011) to the context within service use experience which generates value-in-use. Macdonald et al. (2011) investigated the usage process quality and service quality.

people or folk, “*grapho*” means “I write”. He also points out that ethnography clearly reveals unarticulated needs in a vivid way through documenting and understanding what people actually do. In this process, two main components exist. Firstly, key is getting good field data and secondly, it should be analysed (Reese, 2004). Van Maanen (2011, p. 1) describes ethnography in the same way. He defines ethnography as: “...*a written representation of a culture (or selected aspects of a culture)*”. This is also in line with other researchers like Reese, Hammersley and Atkinson.

Researchers choose an ethnographic perspective if their aim is to understand the culture of a particular group from the perspective of the group members (Krane & Baird, 2005). This will lead to insight into the behaviours, values, emotions, and mental states of group members as Krane and Baird (2005) state

	<i>Positivism</i>	<i>Postpositivism</i>	<i>Critical Theory et al.</i>	<i>Constructivism</i>
<i>Ontology</i>	naïve realism	critical realism	historical realism	relativism
<i>Empistemology</i>	objectivist: findings true	modified objectivist: findings probably true	subjectivist: value-mediated findings	subjectivist: created findings
<i>Methodology/ Role of Theory</i>	experimental: verification of hypotheses (mainly quantitative methods), deductive	modified experimental: falsification of hypotheses (may include qualitative methods), deductive & inductive	dialogic	hermeneutical
<i>Inquiry aim</i>	explanation: prediction, control and hypothesis testing	explanation: prediction and control	critique and transformation	understanding of natural setting
<i>Examples value-in-use research</i>			Bruns and Jacob (2014)	Gummerus and Pihlström (2011); Heinonen and Strandvik (2009); Macdonald et al. (2011)

Table 3 - Research paradigms and its characteristics (Guba & Lincoln, 1994, pp. 108, 112; Krane & Baird, 2005, p. 90)

### 2.3.2 Ethnography

Ethnography is a well-known research perspective and there seems to be a growth of interest in it among research in different fields, both theoretical and practical (Hammersley & Atkinson, 1983). In this perspective, the focus lies on the development of theories through the observation of participants. Ethnographic researchers believe that if participants are being observed, they can learn about and dig deep into the (sub)culture of these participants and makes it therefore an efficient way to study a certain phenomenon (Krane & Baird, 2005). Through these observations, the world of the participants can be interpreted by the research in such a way that the researchers will get familiar with the participant’s world (Hammersley & Atkinson, 1983). The phenomenon will be studied in its natural setting and a description of cultures becomes the primary goal, according to Hammersley and Atkinson (1983). Ethnography is also perfectly suitable for companies to picture what people need and therefore gives them a competitive advantage (Reese, 2004).

Reese (2004, p. 54) states, ethnography’s literal meaning is “*a study of/writing about culture*”. Where “*ethnos*” refers to

in their research. In order to achieve this, extensive fieldwork should be done and intense familiarity with a certain setting must be created (Tedlock, 2000). The process of ethnography starts with identifying an area of interest, followed by gaining entry, and finally creating a thick, rich ethnographic record of the group (Schensul, Schensul, & LeCompte, 1999). This record consists of emic and etic information. The etic approach can be comprehended as the “external view” of observers who observe from the outside, while the emic approach can be seen as the “internal view” of the observed who observe from within (Rosa & Orey, 2012, p. 867).

Ethnography is used in this research to assess value-in-use. First of all because ethnography makes us understand the social setting through the perspectives of the participants (Krane & Baird, 2005). Secondly, researchers have a general sense at the beginning of an ethnographic study of what they want to investigate but precise questions may not exist (Krane & Baird, 2005). This is also the case in this research, in which we cannot be more precise beside stating that we try to investigate value-in-use through an ethnographic perspective. Interestingly,

Krane and Baird (2005) point out that ethnography is suitable for investigating sport settings, which is the case in this research. Through eliciting the lived experience and usage of the football player we hope to create a well-founded understanding of their culture. Finally, ethnography seems to be suitable since it does not just investigate what end-users say, but also aims to disclose their beliefs and culture (Lee, Saunders, & Goulding, 2005). This can be easily explained when looking at Figure 1, where customer needs (what the end-user points out) is just one part of the value-in-use (“the bigger picture”).

Ethnography is known for its labour intensity (Lee et al., 2005). It involves extensive fieldwork meaning that the researcher should work with people in their natural settings as Lee et al. (2005) state. The result of this fieldwork should be a written end-product that is fluent and a readable narrative in which “the voice” of the customer is most prominent (Boyle, 1994; Muecke, 1994). In order to produce this written end-product, the data gathered by the fieldwork should be analysed. A search for patterns should take place while taking emic and etic interpretations into account (Lee et al., 2005). These patterns are formed by labelling the data into different categories. By doing this, different categories of value-in-use can also be identified. Unfortunately, there has not been any academic research specifically on value-in-use using an ethnographic starting point. Therefore, it can be stated that this research is new to the world.

Within value-in-use research, researchers try to trace what customers or end-users appreciate throughout their usage and experience process. To achieve this, extensive research must be done that focuses on these processes. In order to understand the value-in-use that lies with the end-user, researchers should empathise themselves with the end-user. This mainly takes place in the immersion stage as described by Visconti (2010). By following the total process of Visconti (2010), data can be gathered, the experience of the end-user can be understood, researchers can properly empathise with the subject’s world and thus are better informed. These steps will be further explained in the next chapter. Furthermore, a combination of first-order and second order data should allow the researcher to acquire a well-founded basis of the end-users’ experience.

Finally, Gioia and Chittipeddi (1991) mention five steps that help a researcher to perform the second-order analysis: 1) qualitative content analysis of informants’ account to ascertain explanations for various events and activities that took place; 2) determining whether there appears to be a consistency or a change over time of the informants’ accounts; 3) analysis of data across different informants for significant patterns of convergence or divergence; 4) excerption of the theoretical explanations; 5) integrating these patterns into a theoretical framework. These steps are designed to provide a solid description of events (Gioia & Chittipeddi, 1991) and, therefore, will be used in the interpretation section.

### **3. ETHNOGRAPHIC CASE STUDY**

In the previous section, the concepts of value, value-in-use, and ethnography are discussed that serve as a solid basis for this research. In this chapter, the Ethnographic Case Study (ECS)

that has been chosen for this research will be intensively discussed according to the steps developed by Visconti (2010).

Ethnographic Case Study research is defined as “*the application of the ontological, epistemological and methodological features of ethnography to a theoretically selected set of business cases*” (Visconti, 2010, p. 29). ECS is closely related to case study research as described by Eisenhardt (1989) as a research approach which focuses on understanding the dynamics present within a single setting. However, ECS is a revisited and structured combination of a case study with ethnographic methods (Visconti, 2010). Although ECS has considerable common ground with the traditional case study research, there are some distinctive features. Especially in marketing-oriented ethnography (which is the case in this research), ECS is stronger involved with the researched subjects (Visconti, 2010). Since value-in-use mainly focuses on the end-user, ECS seems to be a suitable choice for this research. Moreover, ECS helps “bridging the gap” between academic and the managerial communities and also overcomes the “positivistic” approach in the traditional case study research (Visconti, 2010). Finally, ECS contextualises and binds ethnography within the investigation of business cases (Visconti, 2010).

In the next paragraphs, further will be elaborated on the case study used in this research. This example will illustrate how value-in-use can be assessed using an ECS. More specifically, the following paragraphs will describe the consecutive stages goal setting, sampling, immersion, data collection, data interpretation, and reporting.

#### **3.1 Goal setting**

This study uses both unobtrusive and obtrusive data, in which further will be elaborated in paragraph 3.4, that serve as a foundation for revealing the players’ value-in-use. Moreover, both etic and emic information will be used. When approaching the informants for interviewing them, they are shortly and superficially informed about this research (in order to not create an experimental setting). They were told this research aims to investigate the players’ experiences on artificial grass.

#### **3.2 Sampling**

In this research, the focus is on amateur-level football. By means of purpose sampling (Babbie, 2009), a total of 70 football clubs in the region of Enschede – Zwolle (The Netherlands) were selected. In this sampling method, a sample is selected on the basis of knowledge of a population, its elements, and the purpose of the study (Babbie, 2009, p. 193). Football clubs have been selected on the basis of level, their geographical location, and whether or not they possess an artificial turf pitch. The selection of level is done to achieve a great level of diversity regarding the division football players are in. Junior players (mainly the elder youth) as well as senior players are researched, meaning this study has a diverse sampling group. So, the key informants in this study are the football players themselves. Through them, the valuable information for this study will be acquired.

Firstly, emic information collected and secondly etic information. The emic information provides us with “insider”

information, which refers to the information collected directly from the football players themselves. This information is gathered through face-to-face interviews that are conducted after each training or match. These interviews were subdivided into different categories in order effectively elicit information. Categories mentioned in the face-to-face interviews were: 1) overall experience, 2) playability, 3) physical shape, 4) football-related characteristics, 5) enjoyment, 6) comfort, and 7) appearances. Of course, these categories only served as guidelines for the interviews of the players and did not have a dominant role in the players' answers. Besides the emic approach, an etic approach is also used. Etic information is collected through the researcher's view. By observing football players performing at practices or matches, the researcher retrieves information on how the players act and experience the usage of artificial grass. The setting in which the players perform is described in order to give a clear view of the circumstances they have to deal with.

Out of the 70 clubs in total, 25 clubs are being examined. These football clubs were also purposively selected on the basis of the following data: level, geographic information, and training schedule. Different levels within amateur football are selected (ranging from high to low: third division, fourth division, head league, first class, second class, third class, fourth class). The clubs are selected in such a way that they properly represent the Enschede – Zwolle region. Moreover, the training schedules of each club are used in order to make optimal use of the short time span of data collection.

### 3.3 Immersion

At this stage, the researcher is gradually being naturalised in the inquired culture (Visconti, 2010). Through this, the researcher will get more familiar with the culture of the natives over time. As known, observations and face-to-face interviews are used to achieve this. Linguistic skills, interpretative sensitivity, and behaviours that are meaningful to the observed culture are more effectively acquired over time (Visconti, 2010). As a result, within the immersion stage, the boundary between the observer and the observed gradually tends to blur. In this research, the researcher is not fully part of the context and therefore stays detached from the subjects' world.

### 3.4 Data collection

In this section, first-order data, which is data generated by the field activity of observation and interviewing (Visconti, 2010), is collected. Participant observation is one source of data. In this study, the observation is "spectator-like", meaning that the researcher is not participatory in the subject's world. He or she only observes from a distance to investigate the activities that are related to the topic (Schensul et al., 1999). Participant observation is defined as "a process of learning through exposure to or involvement in the day-to-day activities of participants in the research setting" (Schensul et al., 1999, p. 91). Schensul et al. (1999, p. 73) point out several methods for collecting data, of which the following are used in this research.

- Listening
- Recording and understanding the meaning of the language used in the field setting

- Observing, recording, and interpreting behaviour

In this, field notes are very important. These should contain a detailed description of what the ethnographer observes. Typical information field notes should contain are: behaviours, exact quotes, appearances, etc. (Schensul et al., 1999). Van Maanen (2011) states that field notes are an ongoing "stream-of-consciousness" commentary about what is happening in the research. Beside participant observation, this research also makes use of short face-to-face interviews. Subjects will be asked several questions in order to tap into their usage experience.

The figure below shows a clear template that will be used for recording field notes.

<i>Date &amp; Time</i>		
<i>Event</i>		
<i>Setting</i>		
<i>Field researchers' comments</i>		<i>Notes / Citations</i>

Figure 2 - Fieldnote recording form (partly adopted from Schensul et al. (1999, p. 117))

The two sources of information mentioned above are chosen because only observational data does not provide direct access to the perceptions, value and beliefs of the informants and reveal little about their internal state (Arnould & Wallendorf, 1994). Therefore, this data has to be complemented by forms of verbal accounts (in this case face-to-face interviews) that serve as an emic foundation (Arnould & Wallendorf, 1994). A total of 59 players were interviewed with a total vocal duration of 3 hours, 18 minutes and 35 seconds. In the next section, the data is interpreted and second-order data is generated. This data relates to the interpretations genuinely produced by the researcher on the basis of his/her first order data (Visconti, 2010). Moreover, a distinction can be made between unobtrusive and obtrusive data collection techniques (Visconti, 2010). Where unobtrusive data collection refers to the data collection through observation, obtrusive techniques are used in active elicitation (i.e. non-observational tools) (Visconti, 2010). The latter can take place in, for instance, interviews in which information located at the conscious level is disclosed by the respondent (Visconti, 2010). This distinction in data technique collection is also used in this research. Interviews are held (obtrusive) and observations of the football players are conducted (unobtrusive).

### 3.5 Data interpretation

In this section, the data will be interpreted. By using an iterative process (Lok & De Rond, 2013), traveling back and forth between the first-order data and the literature, the "thick"

descriptions will be turned into useful patterns. ECS is not only concerned with first-order data. It involves the researcher's personal elaboration of first-order data that will be rendered into second-order interpretations (Visconti, 2010). This process is also known as "second-order recounting", as described by Rosen (1991). This procedure will be conducted with the help of the five steps of Gioia and Chittipeddi (1991) as described in chapter 2.

Looking at the field notes taken during the acquisition of data and the interviews that are held, several patterns can be seen. This is done by identifying whether there seems to be a consistency in the data. The questions in the interviews were subdivided into different categories in order to most efficiently tap into the players' experiences. However, when analysing the data, two more categories than the existing seven could be identified: weather conditions and pitch diversity. In the next paragraphs each category will be discussed.

Interestingly, the majority of players compared artificial grass with natural grass in their comments about their experience on artificial grass. It seems to be that artificial grass pitches are judged most of the times in comparison to natural grass pitches. This should be borne in mind when discussing the different categories below.

### 3.5.1 Overall experience

The first question in the interviews tried to gather information about the players' overall experiences with artificial grass. Remarkable in the answers given is that each player gave their individual opinion on artificial grass. Before digging deeper into subcategories, the players themselves already start to categorise information. Therefore, this question positively contributed in the data interpretation section. A typical example of a player's overall experience on artificial grass is:

*"Artificial grass has become better and better. Playing football on such a pitch is very enjoyable. Especially during the fall and winter season when the weather can be really bad. So, for example, now it is November and we are able to perform on a great pitch! This is the opposite of a natural grass pitch where the field is only properly playable at the beginning of the season, in the months of August and September. Previously, we had a normal grass pitch that we used every Saturday afternoon for matches. The problem was that when we reached October, with its rainfall, the pitch had changed dramatically. Thus, the playability on artificial grass pitches is enormously high and cancellations of matches is out of the question."*

The reaction of a respondent stated above represents the average opinion of players. Therefore, a couple of things can be stated: the development of artificial grass has improved over time, the overall experience is enjoyable and pleasant, and there seems to be a great difference playing on artificial grass versus natural grass. Moreover, and more importantly, artificial grass seems to be very reliable. This can be concluded from several aspects. Field notes indicated that the reliability on artificial grass is very high. For example, players do not have to anticipate as much on artificial grass as they need to do on natural grass. How passes will be retrieved by players, the ball's bounce, the smoothness of artificial grass pitches, are all indicators of high reliability. Players want to play football (see

above comment: "... cancellations of matches are out of the question"), and in order to make this possible they need several facilities among others a good pitch.

Although the small number of players that indicated the following, it is worth mentioning. Some respondents stated that they prefer natural grass above artificial grass pitches. One player indicated:

*"... But a natural grass pitch that is well maintained is the best case scenario! This is because of the total experience and all perceptions you have on normal grass: slidings and tackles are more pleasant, the scent of freshly mown grass in the morning... it just has to do with the overall perception of playing football."*

The overall perception of playing football seems to be important for some players. They want to "have a dirty shirt and shorts" (comment of an informant) after playing a match. Artificial grass does not promote this and therefore does not fully contribute to the players' experience.

### 3.5.2 Playability

A great advantage for players is the fact that artificial grass is nearly always playable during all weather conditions. Players are very much aware of this:

*"Of course, it is obvious that 9 times out of 10 artificial grass pitches are playable. Being a sportsman, I want to play sports, in my case football. I want to play football during the weekly practices and each Saturday with a match. Artificial grass enables this. In my opinion, cancellations due to bad weather conditions must be preventable."*

A different respondent gave another interesting comment:

*"... Nowadays, amateur football clubs cannot afford maintaining natural grass fields. Due to the rising members of our club, more practices and matches must be played. In the case of not having artificial grass pitches, the problem of capacity arises because natural grass cannot handle the burden of football teams playing from nine o'clock in the morning until five in the afternoon. From the perspective of a football club, I think artificial grass solves this problem and is much more sustainable!"*

From this comment, it can be concluded that football clubs also profit from possessing artificial grass pitches. The playing capacity increases significantly which is a great advantage for players as well as football clubs. Another player indicated that playability of artificial grass pitches positively influences the shape and fitness level of the football players. In the quote below, this is clearly mentioned.

*"The fact that artificial grass pitches are almost always available for playing football, is a great advantage. We are always able to train so we can stay in shape. On natural grass pitches it is a different story. In that case, when it is raining cats and dogs, we are obliged to "stay inside": no football!"*

### 3.5.3 Football-related characteristics

Field notes clearly indicated football players' perceptions of football-related characteristics. When observing the players during their practices and matches, several important aspects came to light. Players seem to profit from the flatness of artificial grass pitches. Appreciation is given for the ball's velocity and the smoothness of the pitch. Besides these factors,

players take advantages of the predictability of the ball's behaviour: its bounce, roll, and acceleration. However, these factors are heavily influenced by the weather conditions, on which further will be elaborated in section 3.4.8. Observations pointed out that the ball can be easily controlled by the players. Exercises in small areas, position games and short distance passes were performed very well. This indicated that the smoothness, speed, and predictability on artificial grass is perceived as positive for the players. On the other hand, the ball bounces quite high on artificial grass, especially on the outdated pitches where the infill material has been compacted. This compacting process negatively influences bounces and passes in the sense that passes keep bouncing and therefore are difficult to receive for players.

Interviews pointed out that nearly every informant was positive about artificial grass regarding football-related characteristics. Below, several players' reactions are stated.

*"Over here, everything is easier when talking about technique. If you are playing on a normal pitch, you must deal with the "real" grass that consists of bumps and other irregularities. On artificial grass, everything is flat and this is an important aspect you bear in mind when playing football..."*

*"Especially the short distance drills and quick combination exercises are perfect on artificial grass. If you are a team that wants to play position game football, artificial grass really promotes this. On the other hand, if we are obliged to play on a normal grass pitch, we are at a disadvantage so to say."*

*"... Especially during the winter and autumn you have to bear in mind that the pitch has many unevenness patches and bumps. When you are playing at a certain level, the (natural) pitches are way off. With artificial grass you are assured of a stable surface without imperfections. This is, especially for technical well-developed players, a relief. With our team, we are able to play beautiful football in which position game and short combinations are key."*

It came to light that players appreciate artificial grass related towards football specific characteristics. More precisely, they acknowledge that the pace of playing football increases and it helps to play football well.

### 3.5.4 Physical shape

The physical shape of the players on artificial grass seems to be a known topic. Players have mixed opinions whether they are more prone to injuries. This can be seen in the players' comments below, in which the reactions are different.

*"It is not that specifically I am very prone to injuries, but I can definitely state that artificial grass increases the chance of getting injuries. Also, from team mates and other football players I often hear the same problem. Knee injuries are most common which is caused when your boot stays stuck in the pitch when turning your upper body."*

*"...If you know that when performing a tackle or sliding, a skin abrasion will be the result, you will more prudent to perform a sliding next time. So in my opinion, the player adapts his game to this problem."*

*"I was way more prone to injuries with the old fashioned artificial grass because these pitches did not have the cushioning the artificial grass pitches have nowadays. I used*

*to have many knee problems. Given the fact that I have a growth disorder in my knee, the chance of injuries increases significantly."*

*"I do not think that artificial grass pitches make you more prone to injuries. In my opinion, the main problem is when you constantly have to switch from natural grass to artificial grass. This is because not every football association, although this applies to the minority of clubs, owns artificial grass pitches. We are sort of privileged to possess such a pitch, but still, when we must play an away match, we sometimes are obliged to play on natural grass pitches."*

*"No, not at all, it is quite the opposite! On a natural grass pitch, you must accept that there are patches of unevenness and irregularities. With a results, you will sprain your ankle more easily."*

Having a look at the comments above, respondents mention different aspects making it therefore difficult to draw hard conclusions. Some players indicate they suffer from knee, ankle, and groin injuries. Others indicate that the body's recovery process after a practice match takes longer. On the other hand, players reveal they are more satisfied with artificial grass because of the evenness and flatness and therefore are less prone to injuries which positively affects their physical shape.

Furthermore, field notes clearly specify that players suffer from skin abrasion: [*player tries to tackle an opponent*], afterwards he has to wipe away the infill that sticks to his knee. He leaves the pitch for a minute and needs treatment. Another observation was taken during an interview in which an informant tore his tights with a bruise underneath it. When he was asked how it happened, he replied: "*this is a consequence of trying to recapture ball possession through a sliding tackle on artificial grass*". It can be concluded that the majority of the informants agree with the fact that sliding tackles are less pleasant when weather conditions seem to be a mediating variable that influences the severity of skin abrasions. When performing a sliding tackle on a wet pitch, players slide significantly more, reducing the friction they experience. With a dry or arid pitch, the abrasions seem to be the worst. This can be also concluded from a note taken at a practice with heavy rainfall: [*one player tries to continue the game by doing a sliding tackle to keep the ball within the playing area. Almost clashes into the boarding*]. This is contrary to a field note taken at a match with dry and cold weather: [*player is pushed towards the ground, his knees bounced into the pitch and falls forward. Pitch is very dry, a lot of friction*].

### 3.5.5 Enjoyment

Field notes clearly indicated that the central thing players desire is enjoyment. Players want to play football and do not want to be troubled by issues such as a pitch. Observing different practices indicate that players experience fun and enjoyment if drills work out well. This can be stimulated with artificial grass pitches where there is a high degree of playability and reliability.

Moreover, the majority of players explicitly indicated that they encounter significantly more enjoyment when playing on artificial grass. The comments below describe this.

*“For technical players it is very pleasant and enjoyable, of course. The ball travels faster and does not bump. Therefore, you can do your thing!”*

*“... there are no rainouts or cancellations or so and thus we can always play football. I just want to play football and on artificial grass pitches this goes very well. The fields are flat and the ball rolls nicely. On natural grass pitches, you suffer from uneven patches which is not the case over here and thus you cannot blame the pitch anymore.”*

*“On artificial grass pitches, the whole game is easier and nicer to play. So in that respect... the game is more fluent and thus you will get in your flow more easily. On natural grass pitches, most often the game will be interrupted by the unevenness of the pitch and therefore it is more difficult to play a nice game.”*

On the other hand, players mentioned that the “best-case scenario” is a natural grass pitch that is well maintained, flat and a little humid. This has to do with the total experience of football. As one player pointed out:

*“If I were able to choose between a perfect natural grass field or a perfect artificial one, I would go for the natural one. ...it has to do with the total experience of the game. It is something you grow up with, the fresh smell of just mown grass every Saturday morning is not replaceable by something else. However, not everybody has a pitch like FC Barcelona. An amateur club like ours, cannot maintain such a pitch and therefore artificial pitches are a proper solution. I must admit, even if my perfect picture is a natural pitch, everyone is able to get used to artificial grass pitches.”*

The overall enjoyment seems to be an important factor in the player’s experience. Despite the fact natural grass pitches possess some typical traditional characteristics (e.g. smell), artificial grass appears to be positively related towards the player’s enjoyment of performing football.

### 3.5.6 Comfort

The comfort of playing on artificial grass can be divided into different factors. Firstly, the majority of players indicated they encounter the hassle of too much rubber infill on pitches. Secondly, players gave the impression that the cushioning of artificial grass pitches significantly differ. Moreover, they insinuated that weather conditions influence the pitch’s scent.

A notable field note was that players seem to be aware of the amount of rubber infill that is present on artificial grass pitches. During practices and matches, infill bounced into the air which gave the football game a particular look as a whole. With sliding tackles, as well as passes, rubber grains came off into the air. During a practice, the following observation took place: [player makes a sliding tackle, stops participating the game and removes shin pads in order to take out the rubber that is stuck between the sock and shin pad]. While playing a match, another player left the playing area and took a minute to shake the rubber infill out of his boot. These are all field notes that clearly indicate the trouble players perceive regarding the rubber infill during a practice or match.

While conducting the face-to-face interviews, informants appear to have the same conception. Some interesting comments are mentioned below.

[spectator asks player what his opinion is on artificial grass], player replies: *“Too much rubber!”*

*“If the weather is sunny and really warm, you can literally smell the rubber infill. It feels very muggy so to say, when entering the pitch.”*

*“When playing football during warm and dense weather, you will get a dry mouth very easily. You can nearly taste the rubber!”*

*“... Sometimes some rubber grains remain in your clothes but I settle for that. Unfortunately, my mother is not happy with that because apparently it is bad for the washing machine [player laughs] ...”*

These comments clearly illustrate the trouble players experience with the rubber infill that is present on artificial grass pitches. Another interesting issue came to light when interviewing respondents, namely the cushioning of artificial grass pitches. This seems to differ significantly across different pitches. As one player perfectly illustrates this problem:

*“You can easily recognise when entering the field whether you deal with an outdated pitch or a brand-new one. The yarns are totally flat when you have to deal with an old pitch. Also, it is less pleasant to play on because of the lack of cushioning. It really feels like a concrete pitch! ... Within this region, there are some pitches that are “notorious” so to say. When we have to play on these pitches, you know a priori that you will end up having sore muscles and painful legs at the end of the match. This really has to do with the lack of cushioning.”*

Further will be elaborated on pitch diversity in section 3.4.9, but it is important to bear in mind that players experience the cushioning of artificial grass pitches differently. Where new pitches seem to be very cushioning and comfortable, older pitches are less comfortable and very tough to play on. Players also indicated that they feel they are more prone to injuries when playing on old artificial grass pitches. Moreover, field notes evidently pointed out that the total experience of football is different if the cushioning is different. When playing on a pitch that has little cushioning, the ball bounces higher and more “unnaturally”. One field note was taken when observing a practice on an outdated pitch: [ball bounces differently than player anticipated. Player could not anticipate and the ball bounced higher than expected]. This issue repeatedly arose when observing such artificial grass pitches. An informant pointed out the following:

*“... Two weeks ago we had to play a match at ..., this pitch is very outdated and flat. It feels more like a hockey pitch than a football pitch. This is the worst you can play on in my opinion.”*

It is clear that the comfort is related to other categories like weather conditions, pitch diversity, football-related characteristics and physical shape.

### 3.5.7 Appearances

While conducting the face-to-face interviews, the pitch appearance emerged as an important factor in the total experience for football players. During these interviews, one of the goals was to elicit whether pitch appearance has an impact on the players’ experiences. With regard to this question, the majority players pointed out that they do find it important that

the pitch looks good or not. Moreover, the overall ambiance also seems to be important. Some players pointed out the following:

*“Yes for sure. Looking at this pitch, we have rounded corners that give you the feeling of playing in a stadium. The supporters stand and the led-lighting are very nice too! Looking at the total picture of this field, it certainly influences my playing experience.”*

*“... There are pitches where you can see from a distance that they contain a lot of rubber. For me this immediately characterises a bad pitch. The pitch also is less green which gives you the idea that you are not playing on a pitch anymore.”*

*“Some pitches look like tennis courts. In that case, you start the match differently, with less motivation.”*

*“For me it definitely is important. When you enter the pitch, with the led-lighting on and nobody is on the pitch yet, you think: “Oh what a nice pitch to play some good football!”*

It can be concluded that the appearance of the pitch has influence on the player’s experience. They seem to appreciate if the pitch is looks good and well maintained. Moreover, the motivation of the players is influenced by the pitch’ appearance.

### 3.5.8 Weather conditions

Weather conditions evidently has influence the player’s experience on artificial grass. This can be both concluded from field notes and interviews. Field notes clearly showed that the way of playing football differs per weather condition. For example, when it is rainy, the pitch becomes slippery and faster. Players experience that the ball travels with a higher velocity and sliding tackles are more easily executable versus with dry weather. Rainy weather has its advantages and disadvantages. Some players indicated they appreciate the fact that the ball travels with a higher velocity because this has a positive impact on the game. Position game football seems to improve and run more smoothly. However, as many players pointed out, technically well-developed players only seem to profit from this because of the fact the ball travels faster and thus football is more difficult to play. On the other hand, when the pitch is dry, the ball is slowed down by the pitch. Also, sliding tackles are very unpleasant according to different informants. Moreover, the field is rough to play on and therefore more undesirable to perform on. The above mentioned issues, can be seen in both field notes and comments as illustrated below.

*“The weather certainly has an impact on the game, as well as on natural grass as artificial grass. I think that the weather conditions more strongly influence the game on artificial grass. For instance, the pitch becomes very dry and tough to play on with dry weather. On the contrary, with humid weather, the ball travels way faster. I experience this as a positive thing because you will improve your technique as a football player.”*

[Player tries to reach another player by passing the ball in an unoccupied area, ball not reachable for the other player because the ball travels way too fast. This happens very often. Rainy weather has impact on the speed]

[Rainy weather and outdated pitch: yarns are flat and players do not have any grip. Players keep slipping]

[Ball “slides” instead of bounces, therefore making it difficult to estimate for player how to receive the ball]

[Dry pitch, ball rolls smoothly but is delayed. Pitch is more tough to play. Players have a lot of grip and therefore can easily turn.]

It can be concluded that weather conditions influence the player’s experience. Not just regarding their overall experience, but weather conditions are strongly related to football-related characteristics and comfort.

### 3.5.9 Pitch diversity

An important subcategory that was easily identified is pitch diversity. By observing football players, it came to light that artificial grass pitches greatly differ from each other. Field notes indicated that the game is different on an outdated pitch versus a brand-new one, which was already discussed in the previous paragraphs. Factors like football-related characteristics, physical shape, appearances and comfort are most obviously related with pitch diversity. Moreover, enjoyment is also a subcategory which is related to pitch diversity. Players seem to enjoy football less when playing on a pitch that is outdated.

Some field notes were taken during the data collection of this research. They point out some interesting issues.

[Flat pitch, yarn is totally flat. Ball travels very fast. Once there is a bounce in a pass, it keeps on bouncing and therefore difficult to control for players. The acceleration of the ball is very high.]

[Hard pitch. No rubber infill that comes off into the sky. Ball keeps on bouncing in the players’ passes. Ball bounces very high. There seems to be a glow of lightness on the pitch. Led-lighting reflects on the pitch]

[New pitch, placed two months ago. More natural bounce and players seems to profit from this. Very predictable and pleasant. Players are able to pass the ball fast without hindrance of unevenness or irregularities.]

It can be concluded that artificial grass pitches are very diverse at present. This is also explicitly pointed out by several informants as pointed out in the previous sections.

## 3.6 Reporting

Taking a look at the previous paragraphs, it can be seen that the majority of the players are in unison. The reports of the players seem to be in line with the field notes taken during this research. Although some categories have mixed results, in this section insight will be given in what players appreciate in their experience. More specifically, in this subchapter, known as “the text work stage”, reporting will take place. Thus the gap towards value-in-use will be bridged. To make the previous subchapters more specific, the value dimensions of Holbrook (2006) will be used to help categorise the value-in-use of the football players.

In Table 4, the players’ value-in-use is viewed. Holbrook’s value dimensions are used as a tool in which the four main categories (economic, social, hedonic, altruistic) are mentioned. Each category is subdivided into several aspects that are appreciated by players, more specifically, the players’ value-in-use.

<p><i>Economic value</i></p> <ul style="list-style-type: none"> <li>• Playability</li> <li>• Reliability</li> <li>• Flexibility</li> <li>• Convenience</li> <li>• Quality</li> </ul>	<p><i>Hedonic value</i></p> <ul style="list-style-type: none"> <li>• Professionalism</li> <li>• Appearances</li> <li>• Self-fulfilment</li> <li>• Fun</li> </ul>
<p><i>Social value</i></p> <ul style="list-style-type: none"> <li>• Identification</li> <li>• Enjoyment</li> </ul>	<p><i>Altruistic value</i></p> <p>n/a</p>

Table 4 - Players' value-in-use

Firstly, economic value is divided into five categories: playability, reliability, flexibility, convenience, and quality. Players appreciate artificial grass in the sense that it is nearly always playable during the season. Therefore, it gives the players a significant degree of reliability because they can “trust” the artificial grass pitches implying that they are able to always perform. More importantly, artificial grass pitches are reliable, meaning that players can easily predict the ball’s movement and therefore the game becomes easier and more pleasant to play. Moreover, the players and football teams are more flexible during the season, in their practices and matches. They are capable to execute various exercises and are not limited to a few due to a bad pitch, which is most often the case with natural grass pitches in combination with rainy weather. Accordingly, artificial grass pitches are certainly convenient and easy-to-use. Furthermore, the quality of the majority of artificial grass pitches are valued by the players. Bearing the development of artificial grass pitches in mind, players pointed out that pitches have become better over time.

Secondly, hedonic value is split into professionalism, appearances, self-fulfilment, and fun. Professionalism refers to the need for achievement according to Bruns and Jacob (2014). This is also the case in this ECS where the data collection indicates that players want to “win the game”. Therefore, a decent pitch is a must. Moreover, the appearance of the pitch and also “the bigger picture” are considerably important. A well-maintained and good looking pitch is significantly more welcoming for players to perform on. Also, it increases their motivation and enjoyment to play football. Furthermore, there seems to be a degree of self-fulfilment that goes hand in hand with professionalism but is more individually centred. Players want to pursue personal interest, own hobbies (Bruns & Jacob, 2014) and sports. In addition, fun plays a significant role in the player’s experience. Players seem to experience more enjoyment when playing on artificial grass pitches because of factors like playability, reliability and football-related characteristics.

Thirdly, social value is categorised into identification and enjoyment. Players want to identify with a football club that possesses a decent artificial grass pitch. It increases the level of the game and is positive for the sport facilities as a whole. Moreover, a more collectivistic way of enjoyment arises when playing on artificial grass, which in this case is represented by

enjoyment. The football team as a whole enjoys their sport more when playing on artificial grass pitches. Factors like playability, football-related characteristics, and appearances seem to influence this.

Finally, altruistic value is mentioned by Holbrook (2006). However, this dimension of value is not applicable in this case.

## 4. DISCUSSION

In this chapter, further will be elaborated on the ECS. The focus will not particularly lie on the results of the ECS, but more on the scientific part. This implies that the process of converting the initial data towards useful value-in-use will be uncovered. Through this, an appropriate manner for measuring value-in-use from an ethnographic perspective will be introduced. Moreover, this chapter argues that in order to tap deeper into value creation and value-in-use in practice, an ethnographic perspective should be adopted in which a reflective approach is used.

### 4.1 Ethnography and value-in-use

This research uses both an etic and emic approach. By aiming to understand another culture from an emic point of view, we try to understand the other culture from the “insider’s view”. This unveils the “local vision”, as Rosa and Orey (2012) state. On the other hand, an etic approach, which is known as the “outsider’s view”, is inevitable and necessary (Rosa & Orey, 2012) in order to adopt a global vision. The latter approach is linked to the unobtrusive data collection of this research in which observations took place. On the other hand, obtrusive data collection is associated with the emic approach. For this research, face-to-face interviews were conducted as a source of obtrusive data collection. In other words, this research adopts an ethnographic perspective that is used to tap into one’s culture, experience and usage in order to uncover the value-in-use created by the end-users.

It is clear that value-in-use digs deeper into value than customer needs does. This is thoroughly discussed in chapter 2 and besides that, visually stated in Figure 1. Value-in-use thus comprises more than just the needs of customers. Bearing this in mind, in order to measure or assess value-in-use, research should take place that does not only makes uses of superficially questionnaires or surveys. These methods are relatively “shallow-minded” in the sense they only tap into familiar areas of customers. Customers are only able to point out their needs of which they are aware and are not conscious of “the bigger picture”. Existing research conducted by authors like Bruns and Jacob (2014), Gummerus and Pihlström (2011), Heinonen and Strandvik (2009) and Macdonald et al. (2011) made use of methods like interviews and online questionnaires. Using methods like these, we are not able to uncover the other’s culture and the lived experience by end-users since they elicit one-dimensional information.

Having stated the previous arguments, this research uses ethnography since this perspective digs deep into the (sub)culture of the participants being observed (Krane & Baird, 2005) and therefore makes it a proper way to study a certain phenomenon. Observations are effective tools in order to get to know this culture in which the researcher familiarises with

behaviours, values, emotions and mental states of the participants (Hammersley & Atkinson, 1983; Krane & Baird, 2005). This is confirmed by this study because making use of observations in combinations with face-to-face interviews disclosed information about the football players' culture, experience and usage of artificial grass. Key in this, is the process of transforming raw data towards useful value-in-use information in which the ethnographer himself or herself is certainly important for acquiring data.

Putting this research into perspective with research conducted by for example Ulaga and Chacour (2001), concerning customer value, I propose that ethnography also seems to be suitable for such studies. This allows researchers to examine customer-perceived value more in-depth compared to the method used by Ulaga and Chacour (2001), namely surveys.

## 4.2 Data transformation

The starting point of the process mentioned above is collecting data. This is done through mainly observing the participants but also by conducting interviews. The ethnographer himself or herself is the source of collecting the data through observing the subjects. Crucially is the quality of the data, gathered by the researcher. Without possessing accurate and comprehensive field notes, researchers are not able to draw further conclusions. So therefore, the quality of the ethnographer itself is significantly important in the process of data transformation. Beside the field notes, information gathered through interviews is also decisive because this illustrates the subjects' experience through their own eyes, also known as obtrusive data. Having collected all the data, the process of data transformation starts. Distinctive in this procedure is the categorisation of data into useful value-in-use constructs. This process starts by structuring the data. For this reason, the field note recording form (Figure 2) is used, which gave insight into data in a clear way. By doing this, patterns can be more easily identified. Also, the steps of Gioia and Chittipeddi (1991) can help researchers in arranging this. Subsequently, these patterns should be interlinked with value-in-use constructs. This can be done by utilising existing value dimensions, for example the categories stated by Holbrook (2006). These existing dimensions, help ethnographers to categorise their data into more concrete findings. An important issue to highlight is the fact that emic information should be linked to etic information in order to reveal similarities between the data.

## 5. CONCLUSION

This chapter draws conclusions from this research in which the main research question will be answered. The ECS will be used as an illustration in order to do this. Moreover, limitations of this research will be handed out.

### 5.1 Ethnography and value-in-use

This research shows that ethnography is an appropriate way to assess value-in-use. An illustration to prove this is given by the ECS used in this study. The experience and usage of football players on artificial grass has been examined in order to capture the value-in-use. Both etic and emic information (and obtrusive and unobtrusive data) has been adopted in order to obtain a

clear view from the "outsider's view" as well as the "insider's view". This gives in-depth data on the subjects' culture, experience and usage. Players pointed out their experience and usage on artificial grass during the face-to-face interviews. The observations described the players' behaviour, emotions, experience and usage. Through categorising this information, value-in-use constructs could be identified.

Having stated the procedure of the ECS, an answer to the main research question "*How can value-in-use be assessed from an ethnographic perspective?*" will be given. Value-in-use can be measured or assessed by adopting an ethnographic perspective because ethnography allows us to deeply tap into the other person's culture. Moreover, I accept the view of Hammersley and Atkinson (1983) and Krane and Baird (2005) in which they state that ethnography is highly suitable for developing theories and examining a certain phenomenon. Furthermore, this research proves that ethnography is suitable to examine one's experience and usage of a product or service. By accepting the need for etic and emic information, a clear view can be sketched of a subject's (in this case the football players) experience and appreciation and the interpretation of the researcher of the data. In other words, insight must be created into this data in order to identify common ground. When these patterns are identified, ethnographers and researchers are able to interlink them with value constructs. This allows researchers to create clear value-in-use constructs.

## 5.2 Limitations and future research

In each research there are limitations and opportunities for future research. This research does not contain limitations regarding its method since it proved that ethnography is a proper and valuable way to assess value-in-use. However, this study serves as impetus for future research in the sense that more in-depth research should be done to further consolidate two aspects. Firstly, there seems to be room for further elaboration on the "lived experience" of the end-users. Secondly, more research should be done into the analysis of emic and etic information. Furthermore, we accept the fact that ethnographers are humans and therefore the data is subjective to a certain extent. The fact that the quality of the data and the ethnographer is of crucial importance, should be borne in mind.

Moreover, this study certainly underlines the great (untapped) potential of ethnography, which is also confirmed by Krane and Baird (2005). There should be continuous research into ethnography in relation with value-in-use in which the methodological and epistemological boundaries should be expanded.

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