The Motivational Profile of Older Sport Participants
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### **Abstract**

The world's population is aging, and this has major implications for a wide range of sectors. In sport, this is important due to the associated health benefits of sports in later life. Despite extensive scholarly research and industry reporting from various disciplines including sport psychology, health science and leisure, the underlying psychology of sport participation among older adults remains fragmented and there is a need for a proper synthesis. Therefore, this dissertation draws upon academic publications, national governing organisations (NGOs), national sport organisations (NSOs), and local government reports as secondary data sources to conceptualise a motivational profile for older sport participants. The analysis has revealed four distinct dimensions that comprise that profile: 1. Independence; 2. Belongingness; 3. Self-Esteem; 4. Self-Actualisation. From a managerial perspective, these four dimensions and associated commentary provide industry practitioners with understandable and actionable insights to recruit and retain older sport participants.

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**Attestation of Authorship** 

I Daniel Capeto hereby declare that this submission is my own work and that, to the

best of my knowledge and belief, it contains no material previously published or written by

another person (except where explicitly defined in the acknowledgements), nor material which

to a substantial extent has been submitted for the award of any other degree or diploma of a

university or other institution of higher learning.

**Students Signature:** 

Date: 30 July 2021

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### **Chapter 1: Introduction**

An unprecedented transformation in the age structure of the world's population is ongoing (United Nations, 2020). The drivers of this powerful change are decreasing levels of fertility and improvements in health care systems, which in turn increases life expectancy (United Nations, 2020; NIOA, 2007). As a result, a majority of countries are experiencing sustained growth in the number and proportion of older adults in their population, specifically those over 60 years of age (United Nations, 2019a, 2019b). Although this phenomenon has advanced faster in Europe and in North America, the same transformation has also been observed across other regions (United Nations, 2017). In Iran, for example, the aging population is expected to rise from 10.5% in 2025 to 21.7% in 2050 (Manoochehry & Reza Rasouli, 2017). Similarly, in New Zealand by 2061, it is estimated that older adults will make up one-quarter of the country's population (approximately 1.5 million), which represents more than double the number in 2012 (Ministry of Health, 2013). The same pattern is also observed in other western nations, such as the United States, the United Kingdom, Canada and Australia (Australian Government, 2018; Government of Canada, 2014; Office for National Statistics, 2019; United States Census, 2018).

The aging of the world's population and its related implications have become the focus of research in a wide variety of disciplines. Several studies have assessed the economic impact (Mamun et al., 2020; Nagarajan et al., 2017), as well as the consequences in the labour markets (Grzenda, 2019), and consumption (Aigner-Walder & Döring, 2012; Holman et al., 2019). Others have examined implications on infrastructure, such as transport, housing, waste management, and food supply, among other public services (Chang & Kalawsky, 2017; Jonsson et al., 2021; Orla & Joe, 2015; Rybova & Slavik, 2016). Scholars have also explored implications for public health systems (Sninate & Bennana, 2020; Tunzi & Simo-Kengne, 2020). Furthermore, there is a growing body of literature analysing physical activity and older adults' health (Grant, 2010; Marques et al., 2020; Opdal et al., 2020). Importantly, an increase in the activity levels among older adults may lead to a reduction in healthcare spending (Active Ageing Canada, 2019).

In terms of older adult participation in sport, most research has focused on examining the benefits of engagement (Kim et al., 2020; Patel et al., 2013; Pedersen et al., 2017; Stone et al., 2018). Physiological benefits include lowering the risk of cardiovascular disease, diabetes, osteoporosis, arthritis, and obesity (Boyle et al., 2021; Kang & Bae, 2020; Kibele et al., 2021; Mollinedo-Cardalda et al., 2021). Determinants, constraints, and psychological effects of older

adults' participation in sport, and experiences in senior competitions have also been explored (Dionigi, 2002; Heo et al., 2013; Kelley et al., 2014). In parallel with the work of scholars, governments and related organisations have also assessed engagement, while developing guidelines on the types, intensity and frequency of recommended activities (Active Ageing Canada, 2019; Ministry of Health, 2013; National Seniors Australia, 2015).

Motivations driving older adults towards sport/physical activity is an important component of this wider phenomenon and has been the focus of research. There are some important features of scholarly work in this space to date. In general, studies on this topic have been underpinned by two well-established theories: Self-Determination Theory and Achievement Goal Theory (Nicholls, 1984; Ryan & Deci, 2000). It is also evident that a variety of terminologies have been used by scholars in the context of studies of older adult sport participant motivation. Alongside 'motivation', the words 'reasons', 'determinants', and 'factors' all feature in the literature (Jenkin et al., 2017; Kelley et al., 2014; Stenner et al., 2020b; Yamada & Heo, 2016). Likewise, the terms *sport* and *physical activity* have been at times used interchangeably, despite some important differences in their meanings.

Scholarly studies on this topic rarely narrowly focus on motivation and varyingly identify four related themes: health, socialisation, aging redefinition, and self-fulfilment. The health motive broadly captures sport participation as a means to obtain the associated physiological benefits (Dionigi, 2006). The socialisation motivate relates to the desire to connect with others and experience enjoyment through sports (Dionigi, 2006). The third is grounded in the complex desire to deal with aging given negative stereotypes and perceptions (Kelley et al., 2014). Finally, self-fulfilment encompasses the desire to give life new purpose, self-accomplishment and self-satisfaction (Spiteri et al., 2019). No study yet definitely prioritises these four ahead of others or discusses them in the context of similar concepts found in related industry reports.

The body of literature covering the underlying psychology of sport participation among older adults remains fragmented and not particularly actionable from the perspective of an industry practitioner. Specifically, the scholarly literature still lacks a synthesis that concisely presents a motivational profile of the individuals who currently participate in sport and physical activity. A more holistic perspective of older sport participants as well as a comprehensive presentation of recommendations for industry practitioners is needed. Merging the related work of both academic researchers and government/industry provides a more complete understanding. The insights from these two sources reflect disparate paradigms, lenses and interests related to

older adults participation in sport. Hence, if the output and commentary from the two sources is analysed in isolation, the resulting synthesis may be somewhat narrower. Furthermore, it is probably the case that what comes from scholarly sources is more scientifically rigorous but perhaps less actionable or practical than what comes from government sources. In this sense, complementing what has come from scholarly sources with what is reported from government sources in the public domain facilitates a more holistic construction of an older sport participant motivational profile. Therefore, through a critical analysis of existing research and industry materials this study aims to conceptualise an understandable and actionable motivational profile of older sport participants.

Constructing a motivational profile of older adult sport participation and fleshing out related implications is important for several reasons. First, this exercise helps to improve our overall knowledge related to a phenomenon of increasing priority due to shifting demographics. Second, it fills an important gap by bridging parallel sources of insight on the topic. Third, insights-supported implications can be used by practitioners for a variety of marketing purposes. Specifically, it can help governments and sport organisations in the development of more efficient strategies to attract and retain older participants in sport programs. Furthermore, it also assists governments and related organisations in the development of policies that facilitate access to sport. The current exercise is paradigmatically pragmatic, in that it aims to establish a profile of older adult sport participation to produce practical solutions (Feilzer, 2010).

This dissertation comprises five chapters. Chapter 1 is an introduction to the topic and justification for the dissertation. Chapter 2 is a critical and systematic analysis of existing academic literature on the motivation of older sport participants. Chapter 3 is a parallel systematic analysis of government and industry materials on this topic. Subsequently, Chapter 4 is a synthesis of the findings from the first two chapters, as well as a presentation of a four-dimensional profile of older sport participants' motivation (Independence, Belongingness, Self-Esteem, Self-Actualisation). The practical implications for sport industry practitioners related to the findings on this topic are presented in Chapter 5, alongside potential gaps to be filled in further studies. Rather than a standalone methods chapter, an account and justification of the research design is presented within Chapters 2 and 3.

### **Chapter 2: Literature Review**

### Introduction

The motives that lead older adults to participate in sport and physical activity have been attracting the attention of scholars and practitioners from a wide range of areas, such as economics, health, and politics. This is due to the fact that sports and physical activity contribute to improved physical and mental health, as well as the well-being of this growing population (United Nations, 2019; Jenkin et al., 2018). Furthermore, there are major concerns regarding the impacts of an aging population on economic outcomes and the increasing demands on social services (Mamun et al., 2020; Nagarajan et al., 2017; Rosselli & Hernández-Galvis, 2016).

Within this context, both scholars and practitioners agree about the importance of creating opportunities for older adults to be involved in sports and physical activity (Government of South Australia, 2004). Health bodies have developed guidelines on the nature of activities that maximise health for this population (Ministry of Health, 2013). Concurrently, scholars have also explored the reasons why older adults participate in sports, which is the focus of this review.

In general, the literature analysing older adults' participation in sport and physical activities has mostly focused on the benefits of participation (Kim et al., 2020; Patel et al., 2013; Pedersen et al., 2017; Stone et al., 2018). Several studies have specifically focused on the physiological benefits associated with sports, such as reducing the risk of cardiovascular disease, diabetes, osteoporosis, arthritis, obesity, musculoskeletal disability, among other issues (Boyle et al., 2021; Kang & Bae, 2020; Kibele et al., 2021; Mollinedo-Cardalda et al., 2021). Scholars have also examined the determinants of older adults participation in sports, as well as the experiences, effects and meanings associated with their participation in senior sport competitions, such as the World Masters Games (Dionigi, 2002; Heo et al., 2013; Kelley et al., 2014).

Despite the efforts of both scholars and industry practitioners, levels of participation continue to decline for older adults (Milanović et al., 2013). In addition to exploring benefits and experiences, there is increasing focus from scholars on analysing the motives that lead older adults to participate in sport and related managerial implications (Kolt et al., 2004; Stenner et al., 2020a). Therefore, focusing on motives in our ongoing efforts to better understand older adults' engagement in sport is particularly important for several reasons. First, exploring motives will assist in the establishment of a motivational profile for this age group, which can

then be used for a variety of marketing purposes. Second, this work will contribute to finding and filling gaps in academic literature. Third, this work will also help industry practitioners develop strategies to increase participation. Finally, conclusions drawn here can inform policy development for both governments and sport organisations.

This literature review covers the sport participation motivation of older adults in academic literature. First, the systematic approach utilised is outlined and justified. Second, definitional issues are addressed. Physical activity and sport contexts and how they feature in related literature is then covered. Third, the specific research protocols, search parameters and selection criteria used here are detailed, and the final sample of included material is presented. Fourth, the main themes emerging from the literature related to older sport participants are presented and discussed.

### A systematic approach

The present research project aims to establish a motivational profile of older sport participants. No primary data has been collected for this purpose. Rather, a rigorous and systematic review of related literature has been conducted. The systematic nature of this review of related literature on the topic complements the identification and synthesising of government/industry reports which is to follow in Chapter 3. This approach has also been taken by other scholars investigating older sport participants motivations (Gayman et al., 2017; Jenkin et al., 2017; Spiteri et al., 2019; Stenner et al., 2020a; Yarmohammadi et al., 2019). It is, therefore, fundamentally important to adopt a search procedure that ensures the quality and relevance of the sources. In summary, the rigor, transparency and replicability involved in a systematic literature review makes it the most appropriate method for the present review (Mallett et al., 2012). The systematic literature review is widely considered by scholars to be a rigorous method to unbiasedly map, assess the quality, and synthesise the evidences found in relevant publications on a certain topic ("Systematic reviews," 2011; Mallett et al., 2012). Although most systematic reviews follow a rigid process, the method does allow some flexibility, provided that it complies with core principles (rigor, transparency, replicability) (Mallett et al., 2012). The rigor of these steps is what distinguish a systematic literature review from other traditional methods.

This systematic review includes only the most relevant publications on the topic of older sport participant motivation. This is ensured through the use of search protocols that filter based on key words related to the topic. These protocols offer other benefits compared with

traditional reviews. In a standard review, inclusion is restricted to literature already known to authors or found by conducting shallower searches (Mallett et al., 2012). Conversely, the protocols of the systematic approach help minimise researcher bias by 'forcing' a "search for studies beyond their own subject areas or pre-existing knowledge" (Mallett et al., 2012, p. 448). This is particularly important for the present study, as it will prevent missing potentially pertinent studies. Furthermore, it allows for coverage of a wider range of perspectives. This, in turn, will help produce more evidence to construct a motivational profile of older sport participants.

Systematic reviews are also known as a *transparent* form of literature review (Greyson et al., 2019). According to Mallet et al. (2012), transparency is ensured by following a fixed process that distinguishes this method from others. By properly detailing and justifying the key concepts/terms included, the databases accessed, the inclusion and exclusion criteria, the present review ensures transparency. Systematic reviews also allow for future replication (Shokraneh, 2019) because the steps are meticulously detailed (Mallett et al., 2012). Finally, by combining these three core principles of a systematic literature review – *rigor*, *transparency* and *replicability* – the study also ensures the validity of the emerging themes in regard to older sport participant motivation.

### Motivation and its dimensions

At the outset of this exploration of motivation amongst older sport participants, it is first important to define the terms. This is challenging, because there is a dearth of research explicitly focused on motivation as part of the experience of older adults in sport and physical activity. Also, there is a relatively extensive range of terminology used in this area, as well as multiple theories and dimensions related to motivation and sport participation.

In lieu of the word 'motivation' specifically, related research has occasionally used 'meanings', 'reasons', 'factors' or 'determinants' (Jenkin et al., 2017; Kelley et al., 2014; Stenner et al., 2020b; Yamada & Heo, 2016). However, some of these terms, such as 'determinants' and 'factors', do not necessarily carry the same meaning as motivation. Instead, those terms might reflect other factors that influence older adults' participation, such as previous involvement in sports and the existence of appropriate infrastructures to facilitate participation (Guinn & Vincent, 2002; Owen et al., 2000; Yang et al., 2007). The complexity brought on by these multiple terminologies must be considered within the protocol aspect of this systematic review.

Motivation has been defined as a "hypothetical construct used to describe internal and/or external forces that produce initiation, direction, intensity, and persistence of a behaviour" (Spiteri et al., 2019, p. 930). Within this context, Pero et al. (2009) stated that this construct has a strong influence on other behavioural variables such as learning and performance in sports and exercise. In other words, besides initiation, direction and persistence, motivation positively influences an older adults' ability to learn and perform activities. From another perspective, Plonczynski (2000) summarises motivation as the "intrinsic determination toward goal attainment" (p. 696). The author also stated that motivation is at the crux of an individual's health behaviour which is relevant to the current context. In the sport motivation literature, numerous theories have been used as an underpinning.

Achievement Goal Theory (Nicholls, 1984), and Self-Determination Theory (Ryan & Deci, 2000) appear most often in research related to motivation in sport contexts. Achievement Goal Theory explains how older adults' beliefs and cognitions orient them towards achievement or success, based on task (mastery) and ego (performance) (Kremer et al., 2012). Conversely, Self-Determination Theory proposes that there is a 'self-determination continuum' of motives that underlie motivation to participate in sports (Davey et al., 2009). This continuum includes types of motivation differing in their effect on performance and well-being, and also representing the different degrees to which the behaviour has been internalised and integrated (Davey et al., 2009). Through this lens, the three constructs that explain the psychological processes underlying older sport participants are *intrinsic motivation* (IM), *extrinsic motivation* (EM), and *amotivation* (AM) (Pero et al., 2009).

The first type of motivation, *intrinsic*, pertains to satisfaction derived from the activity per se (Davey et al., 2009). In other words, it refers to the participation in sports purely for the pleasure and satisfaction derived from doing it (Pero et al., 2009). Conversely, *extrinsic* motivation characterises activity "performed in order to obtain rewards or outcomes that are separable from the exercise itself" (Davey et al., 2009). That is, a wide variety of behaviours that are engaged in as a means to an end not for their own sake (Pero et al., 2009). This type of motivation is normally associated with participation focused on rewards, medals and recognition. The *amotivation* construct encompasses individuals who "do not perceive contingencies between their action and the outcomes of their actions and they no longer identify any good reason for why they continue to train" (Davey et al., 2009). In the current context, older adults who do not see any benefit in participating in sport could be characterised as amotivated. Despite complexity created by the multiple terminologies used in related literature,

an overarching definition of motivation does emerge that is useful in the current context: *the internal and external factors that drive older adult sport participation.* 

### **Defining Sport and physical activity**

The literature that focuses on the motives of older adults features two related but distinct terms: *sport* and *physical activity*. Despite overlap between these domains, there are important distinctions in their meanings and practical implications that must be addressed. More specifically, the individuals who engage in each of these types of activities might have distinct reasons underpinning their engagement (Stenner et al., 2020a). Therefore, what follows are distinct conceptualisations for each, while also highlighting complementary aspects.

There is mostly consensus among scholars and practitioners on the meaning of *physical activity*. Many studies have adopted the definition established by the World Health Organisation (WHO). Namely, that *physical activity* is "any bodily movement produced by the skeletal muscles that uses energy above resting level. It may be in the form of general movement or more planned structured or repetitive movement such as exercise" (World Health Organisation, 2020). As the WHO definition suggests, the concept of physical activity is broad, covering a wide variety of activities, from gardening to more serious leisure or sport, such as golfing or cycling (Ministry of Health, 2013). This conceptualisation has mostly been adopted by governments/industry when developing programs focused on promoting active aging. This may be due to the evidence showing its more positive connotations than the term *sports*. According to some organisations, the term *sport* brings negative connotations among older adults, such as being 'too strenuous', 'too competitive' and associated with young people. (Government of South Australia, 2004; Sport England, 2006; Sport New Zealand, 2016).

On the other hand, *sport* is a narrower set of activities. According to Jenkin et al. (2017), *sport* is any "human activity capable of achieving a result requiring physical exertion and/or physical skill which, by its nature and organization, is competitive and is generally accepted as being a sport" (p. 2). In that study, it was also noted that sport can be aerobic or anaerobic, involve individuals or teams and be organised or casual. In another approach, Kim et al. (2020) highlight the social and mental dimensions of sport by defining it as "all forms of physical activity, which aim at expressing or improving physical fitness and mental well-being, forming social relationships or obtaining results in competition at all levels" (p. 1531). These two perspectives represent a common view among scholars. Namely, that *sport* is a form or one

dimension of *physical activity* or even its dominant form. (Kim et al., 2020; Stenner et al., 2020a).

The notion of competition and its many facets also distinguish *physical activity* and *sport*. For example, Stenner et al. (2020a) state that *physical activity* does not necessarily have defined rules, goals and expectations, such as results, prizes and rewards. As a result, the competition aspects of *sport* might create multiple contexts that, in turn, motivate older adults differently than *physical activity*. However, in the Stenner et al. (2020a) study it is also noted that *sport* involves important components of *physical activity* and, therefore, provides a means by which participants can be physically active.

In the present review, distinctions between *sport* and *physical activity* are acknowledged, as well as their potentially varied interpretations within the wider context of older sport participant motivation. However, in line with Stenner et al. (2020b) and Kim et al. (2020), the two terms capture similar contexts with one essentially a subset of the other. Despite the primary focus of the review being sport motivation, physical activity is necessarily included in the search protocols as the two concepts substantially overlap. This reality has been kept front of mind during subsequent phases of the profile conceptualisation.

### Research protocol / Search process

As discussed in a previous section, definitional issues plague this broad area of inquiry and that affected the protocols and process by which literature was identified and ultimately included in this review. *Motivation*, for example, is occasionally referred to as *determinants or factors*, in the context of older adults who participate in sports or physical activities. (Jenkin et al., 2017; Stenner et al., 2020b; Yamada & Heo, 2016). These terms do not have the same meanings as *motivation*, and generally reflect the internal and/or external factors that exert a positive influence on sport participation among the aging population. Likewise, the age group 'older adults' is often referred to using other terminology. Among other terms that have been utilised by scholars are *aging population* (Sotiriadou & Wicker, 2014), *later life* (Dionigi, 2002), *baby boomers* (Jae-Eun & Gwang-Uk, 2013), *late adulthood* (Wong et al., 2019), *master or senior athletes* (Reed & Cox, 2007; Yamada & Heo, 2016; Young, 2011), or even *people in their sixties* (Jannique et al., 2017).

Both *sport* and *physical activity*, despite the conceptual distinctions previously discussed, have been used individually and/or complementarily in the literature exploring older sport participant motivation. Therefore, considering the above-mentioned issues on the key

terminology, as well as the aim of generating a manageable sample for this review, the key search words were: 'participation', 'motives', 'motivation', 'motivators', 'reasons', 'determinants', 'sport', 'physical activity', 'active', 'older adults', 'later life', 'adulthood', 'senior/master', 'elderly', and 'ageing'.

In order to identify related literature on the focal topic, AUT's online library tools were used, which including a range of databases covering the fields of sport, psychology, sociology, health, economics: Human Kinetics, Routledge Taylor & Francis, SAGE, Scimago, Springer Link, SPORTDiscus, Cambridge University Press, PubMed, ScienceDirect. The key terms were organised as follows: title: 'active OR "physical activity" OR sport' AND 'motivators OR motivation OR motives OR reasons OR determinants' AND 'senior OR master OR "later life" OR "older adults" OR adulthood OR elderly OR ageing' AND 'participation', with the truncation symbol (\*) used where appropriate to ensure all deviations of the search terms were captured in the search.

#### **Inclusion criteria**

Publications that emerged using the aforementioned search terms were ultimately included if they satisfied the following additional criteria after further screening:

- (1) Written in English.
- (2) Published in peer reviewed academic journals, books or book chapters.
- (3) Focusing on older adults aged 50 years and over.
- (4) Primarily focused on motivation or closely relate concepts (for example, reasons, meanings, determinants).
- (5) Primarily in sport/physical activity contexts.
- (6) Primarily focused on the sport participation motivation of individual older adults rather than other actors (e.g., volunteers, coaches, administrators, healthcare professionals or spectators).

Initially 66 publications that met the 'search terms' criteria were identified. The winnowing down process is depicted in Figure 1. Ten publications were either duplicates or full text was not available. Two were written in languages other than English. Five focused on other age ranges, such as young adults, middle-aged adults or adults aged 49 years or under. Including publications (n=16) analysing individuals aged between 50 and 59 years is not quite in line with the United Nations' (2019b) definition of older adults being 60 years and over. The aim was to include a large number of publications on the topic without straying too far away from the

central focus. Seventeen publications were excluded as they were focused on other internal and external factors related to participation and not motivation specifically. This included infrastructure, social services, public policies and sport. Thirteen publications mainly focused on the challenges, benefits, outcomes and rituals associated with older adults' participation in sport were also excluded. Two publications focused mainly on actors other than the older adult her or himself were also excluded. Seventeen publications remained at this stage.

Ten other publications were added which were not initially found using the search terms. These were found through further database searching to ensure broad coverage of the topic. Some of the publications included at this stage featured different terminology (e.g. 'baby boomers', instead of *older adults* or 'Pickleball', 'Exercise', and 'Golf' instead of *sport and physical activity*), other had similar words but not the specific key words and other had unique titles not containing any topical words at all such as Pike's (2012) "Aquatic antiques: Swimming off this mortal coil?". Each of the ten publications included at this stage relate to the explicit aim of profiling adult sport participant motives. It is acknowledged that the inclusion of these additional publications compromises somewhat the potential for replicability which is an important benefit of a systematic review, but their direct relevance to the current review was ultimately deemed to override that issue. The final 27 publications are listed in Table 1.

Figure 1

**Publication Inclusion Process** 

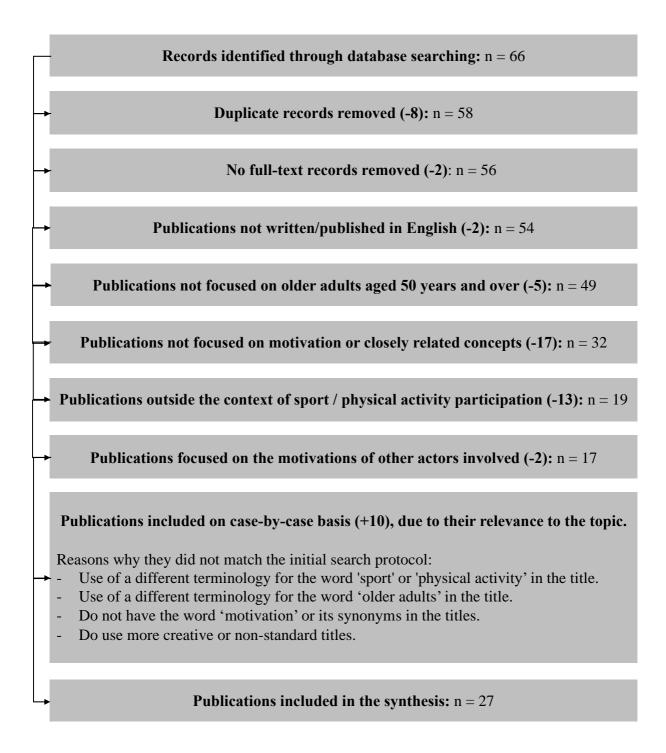


 Table 1

 Summary of the Publications Included in This Systematic Literature Review

Publication	Author(s)	Year	Country	Country Theories / Concepts / Frameworks		Design / Sample
Examining the Motivation and Perceived Benefits of Pickleball Participation in Older Adults.  Journal of Aging & Physical Activity	Buzzelli, A. A., & Draper, J. A.	2020	United States	- Sport Motivation Scale (SMS) / Task and Ego Orientation in Sport Questionnaire	Qualitative	- Questionnaire - 3,012 U.S. participants (aged 55 and over)
Sport and ageing: A systematic review of the determinants and trends of participation in Sport for older adults.  BMC Public Health	Jenkin, C. R., Rochelle, M. E., Hans, W., Grant, O. S., & Jannique, G. Z. V. U.	2017	Australia	- Not reported	Systematic Review	- Systematic Review - 26 studies in total
Adult Participation Motives: Empirical Evidence from a Workplace Exercise Programme. European Sport Management Quarterly	Davey, J., Fitzpatrick, M., Garland, R., & Kilgour, M.	2009	New Zealand	- Self-Determination Theory / Sport Motivation Scale / Motivation for Physical Activity Measure-Revised	Quantitative	- Online Questionnaire - 134 repondents
Leisure and identity management in later life: understanding competitive sport participation among older adults. World Leisure Journal	Dionigi, R.	2002	Australia	- Identity Theory (personal and social)	Qualitative	- Semi-structured Interviews - 110 participants (aged 55 and over)
Competitive Sport and Aging: The Need for Qualitative Sociological Research. Journal of Aging & Physical Activity	Dionigi, R.	2006	Australia	- Not reported	Mixed-Methods	- Semi-structured Interviews (110 participants) - In-depth Interviews (28 participants) (aged 55 and over) / Observations
Promoting Successful Aging Through Competitive Sports Participation: Insights From Older Adults. Qualitative Health Research	Heo, J., Culp, B., Yamada, N., & Won, Y.	2013	United States	- Serious Leasure framework	Qualitative	- In-depht Interviews - 10 participants (aged 50 years and over)
Articulating Meanings of Positive Adjustment to Aging through Physical Activity Participation among Older Adults.  Journal of Park & Recreation Administration	Kelley, K., Little, S., Jong Seon, L., Birendra, K. C., & Henderson, K.	2014	United States	- Selection, Optimization, and Compensation (SOC)/ Socioemotional selectivity	Qualitative	- In-depth Interviews - 6 participants (aged 55 years and over)
Motivation for sport participation in older Italian athletes: the role of age, gender and competition level.  Sport Sciences for Health	Pero, R., Amici, S., Benvenuti, C., Minganti, C., Capranica, L., & Pesce, C.	2009	Italy	- Sport Motivation Scale (SMS) / Self-Efficacy theory / Acheivment goal theory / Self- Determination Theory	Quantitative	- Online Questionnaire - 433 participants

Physical activity participation in older adults: A comparison of competitors, noncompetitors, and nonexercisers.  Journal of Aging and Physical Activity	Smith, C., & Storandt, M.	1997	United States	- Health Belief Model / NEO-FFI (Five domains of normal adult personality)	Quantitative	- Online Questionnaire - 246 participants (aged 55 and over)	
A Life Course Examination of Women's Team Sport Participation in Late Adulthood. Journal of Aging & Physical Activity	Wong, J. D., Son, J. S., West, S. T., Naar, J. J., & Liechty, T.	2019	United States	- The Life Course Perspective (historical context and place, social embeddedness, agency, timing)	Qualitative	- Focus Groups - 64 participants (aged 55 and over)	
Why Older Australians Participate in Exercise and Sport. Journal of Aging & Physical Activity	Kolt, G. S., Driver, R. P., & Giles, L. C.	2004	Australia	- Participation Motivation Questionnaire	Quantitative	- Online Questionnaire - 815 participants (aged 55 and over)	
Is sport good for older adults? A systematic review of psychosocial outcomes of older adults' sport participation.  International Review of Sport & Exercise Psychology	Gayman, A. M., Fraser- Thomas, J., Dionigi, R. A., Horton, S., & Baker, J.	2017	Canada	- Not reported	Systematic Review	- Systematic Review - 10 studies in total	
Barriers and Motivators of Physical Activity Participation in Middle-Aged and Older Adults-A Systematic Review. Journal of Aging and Physical Activity	Spiteri, K., Broom, D., Bekhet, A. H., de Caro, J. X., Laventure, B., & Grafton, K.	2019	United States	- Theoretical Domain Framework	Systematic Review	- Systematic Review - 55 studies in total	
Psycho-social perspectives on the motivation and commitment of masters athletes.  In N. Holt & R. Bailey (Eds.), Lifelong engagement in sport and physical activity. London, UK: International Council of Sport Science and Physical Education.	Young, B.W.	2011	United Kingdom	- Achievement Goal Theory / Self- Determination Theory / Social Motivation Model / Sport Commitment Model	Review	Book Chapter	
Sport for Adults Aged 50+ Years: Participation Benefits and Barriers. Journal of Aging & Physical Activity	Jenkin, C. R., Eime, R. M., Westerbeek, H., & van Uffelen, J. G. Z.	2018	Australia	- Socioecological Model	Qualitative	- Focus Groups - 49 participants (aged 50 and over)	
Determinants of Engagement in Leisure-time Physical Activity – Dialogue with Senior Athletes. Canadian Journal on Aging	Yamada, N., & Heo, J.	2016	Canada	- Theory of Planned Behavior	Qualitative	- In-depth Interviews - 10 participants (aged 50 and over)	
Reasons why older adults play sport: A systematic review.  Journal of Sport & Health Science	Stenner, B. J., Buckley, J. D., & Mosewich, A. D.	2020	Australia	- Not reported	Systematic Review	- Systematic Review - 30 studies included	
Aquatic antiques: Swimming off this mortal coil? International Review for the Sociology of Sport	Pike, E. C. J.	2012	United Kingdom	- Not reported	Mixed- Methods	- Observations - Semi-sctructured interviews - 31 participants (aged 50 years and over)	

Motives and regulatory style underlying senior athletes' participation in sport.  Journal of Sport Behavior	Reed, C. E. & Cox, R.H.	2007	United States	- Sport Motivation Scale / Self- Determination Theory	Quantitative	- Online Questionnaire - 446 participants (aged 50 and over)
Motives and Barriers to Physical Activity Among Older Adults of Different Socioeconomic Status. Journal of Aging & Physical Activity	Gray, P. M., Murphy, M. H., Gallagher, A. M., & Simpson, E. E. A.	2016	Ireland	-Self-Determination Theory / Self-Efficacy Theory	( hightative	
Why Do Older Adults Play Golf? An Evaluation of Factors Related to Golf Participation by Older Adults.  Journal of Aging & Physical Activity	Stenner, B. J., Mosewich, A. D., & Buckley, J. D.	2020	Australia	- Not reported	Quantitative	- Online Questionnaire - 3,262 participants (aged 60 and over)
Gender differences in physical activity motivators and context preferences: a population-based study in people in their sixties.  BMC Public Health	Jannique, G. Z. v. U., Asaduzzaman, K., & Nicola, W. B.	2017	Australia	- Social Cognitive Theory	Quantitative	- Online Questionnaire - 1,845 participants (aged 60 and over)
Motives for and Barriers to Physical Activity Among Older Adults With Mobility Limitations. Journal of Aging & Physical Activity	Rasinaho, M., Hirvensalo, M., Leinonen, R., Lintunen, T., & Rantanen, T.	2007	Finland	- Not reported	Mixed- Methods	- Questionnaire - 1,100 participants (aged 70 and over) - In-depth Interviews - 727 participants (aged 70 and
Motivation in masters sport: Achievement and social goals. Psychology of Sport & Exercise	Hodge, K., Allen, J. B., & Smellie, L.	2008	New Zealand	- Achievement Goal Theory / Social Motivation Model / Self- Determination Theory	Quantitative	- Questionnaire - 373 participants (aged 48 and over)
Grounding theory in self-referent thinking: conceptualizing motivation for older adult physical activity.  Psychology of Sport & Exercise	Cousins, S. O. B.	2003	Canada	- Social Cognitive Theory / Health Belief Model	Qualitative	- In-depht Interview - 41 participants (aged 55 and over)
Elderly on the move: Level, Barriers, and Motivation to Physical Activity. Indian Journal of Physiotherapy and Occupational Therapy	Wen, K. J., & Lobao, H. C.	2019	Malasya	- Not reported	Quantitative	- Questionnaire (34 participants aged 65 and over)
A systematic review of barriers and motivators to physical activity in elderly adults in Iran and worldwide. Epidemiology and Health	Yarmohammadi, S., Saadati, H. M., Ghaffari, M., & Ramezankhani, A.	2019	Iran	- Not reported	Systematic Review	- Systematic Review - 34 studies included

### **Description of included publications**

Of the 27 publications identified for the present review, the majority emanated from Australia (n = 8) or the United States (n = 7). Other publications came from Canada (n = 3), New Zealand (n = 2), the United Kingdom (n = 2), and Finland while one came from Iran, Ireland, Italy and Malaysia. Most publications (63%, n = 17) were published between 2011 and 2021. Another 33% (n = 9) were published between 2000 and 2010, and one was published in the late 90's. Of the final sample of 27 publications, there was one book chapter and the remainder were journal articles. Nine of the publications used quantitative methods, nine qualitative and three mixed methods. Several featured an online questionnaire (n = 11). Among those with qualitative and mixed-methods designs, in-depth and semi-structured interviews (n = 7) were the most common means of data collection, followed by focus groups (n = 3). Five publications were systematic reviews. One might argue that systematic reviews shouldn't be included in this project because some bias might carry through that ultimately affects the construction of the older sport participant motivational profile. However, the scope of research on this topic is limited, so the exclusion of these reviews would weaken the exercise considerably. In terms of a theoretical basis, Self-Determination Theory (n = 7) was most common. Achievement Goal Theory, Social Motivation Model, Social Cognitive Theory and Self-Efficacy Theory featured in two publications each. Table 2 summarises the above description of the 27 publications selected for the review.

**Table 2**Included Publications

Country	No. of publications	Approach	No. of publications
Australia	8	Quantitative	9
United States	7	Qualitative	9
Canada	3	Systematic Review	5
New Zealand	2	Mixed-Method	3
United Kingdom	2	Book Chapter	1
Finland	1		
Iran	1	Theory/Concept approached	No. of publications
Ireland	1	Self-Determination Theory	7
Italy	1	Achievement Goal Theory	2
Malaysia	1	Social Motivation Model	2
		Social Cognitive Theory	2
Instrument	No. of publications	Self-Efficacy Theory	2
Online Questionnaire	11	Identity Concept	1
Systematic Review	5	Serious Leasure Framework	1
In-depht Interviews	4	Socioecological Model	1
Semi-structured Interviews	3	Life Course Perspective	1
Focus Groups	3	Theory of Planned Behavior	1
Observations	2	Not reported	8
Book Chapter	1		
		Decade of publication	No. of publications
		2011 - 2021	17
		2000 - 2010	9
		1990 - 1999	1

### Thematic analysis

A six phase reflexive thematic analysis process (Braun et al., 2019) was used to analyse the 27 publications (Table 3). This involves identifying and "examining codes (and associated data), and combining, clustering, or collapsing them together into bigger or more meaningful patterns" (p. 27) in order to identify, shape and refine the major groups of motives underpinning older sport participant motivation. The process involves familiarisation with the data, generating codes, constructing themes, reviewing potential themes, defining and naming themes, and producing the report.

Table 3

The 'Six-Phase' process of Emergent Themes Construction

Phase	Definition						
Phase 1  Familiarisation	"The process involves becoming 'immersed' in the data and connecting with them in different ways: engaged, but also relaxed; making casual notes, but being thoughtful and curious about what you are reading" (Braun et al., 2019, p. 852).						

Activity: the review has immersed itself into the twenty-seven selected materials, through a careful reading process that aimed to not only intimately know the dataset, but also observing and noticing patterns that may indicate potential patterns related to the motives of older sport participants.

# Phase 2 Generating Codes This phase involves "attaching pithy, clear labels (codes) to "chunks" of data, to help you organize the data around meaning-patterns (developed in later phases)." (Braun et al., 2019, p. 853)

Activity: the review has started to identify key pieces of information that present shared meanings (codes) and started organizing (or labelling) them into preliminary groups of motives for sport participation.

# The process involves the construction of labels for the patterns identified across the data in the previous stages. Besides, a good theme are those that "tell a coherent, insightful story about the data in relation to the research question" (Braun et al., 2019, p. 854)

Activity: considering the nature of the study, a master's dissertation, both code generation and themes construction phases were performed concurrently. Therefore, it has used the identified codes to form patterns in the data. That is, 'groups' of ideas that translated similar motivations for sport participation.

# This phase aims to test the effectiveness of the previously 'prototyped' themes in relation to its meaningfulness, as well as delineating its boundaries and reducing conceptual weakness risks. (Braun et al., 2019)

Activity: the review has established a clear definition to each theme, while identifying the different perspectives within similar ideas. Such a process allowed to reduce potential overlaps and to better understand the relations between aspects within a same dimension.

Phase 5

### **Defining Themes**

This phase seeks to ensure that "themes, and themes names, clearly, comprehensively and concisely capture what is meaningful about the data, related to the research question" (Braun et al., 2019, p. 857)

Activity: in this phase the review has shifted from a summative position to an interpretative orientation. This basically involved summarising the core idea and meanings of each group of motives, besides capturing the richness and multiple facets of each theme.

Phase 6

### **Producing the report**

It represents "the final stage of analysis", once it is not a purely writing-up step, but also serves as a final test of "how well themes work individually in relation to the dataset, and overall". (Braun et al., 2019, p. 857)

Activity: the next section presents the interpretations for each of the themes in a narrative that comes back to the bigger picture of the review: the motives of older sport participants. This involved connecting the insights from the selected literature into singular stories that explain the motivations of older sport participants.

### **Emergent Themes**

### Fitness / Health

The first theme emerging from the selected literature relates to health benefits associated with sport and physical activity. Two dimensions (or "codes" based on the outline of the process above) of how the literature has captured health/fitness as a motivation for older adults' participation in sports became evident during the analysis of the publications. The first dimension relates to *prevention* and is normally associated with older adults' fear of getting injured, becoming ill, or the emergence of any symptoms associated with the aging process (Spiteri et al., 2019; Yarmohammadi et al., 2019). In this sense, sport and physical activities are perceived as a measure to prevent or even delay potential threats to their physical condition. As demonstrated in the Spiteri et al. (2019) study, the motivation arisen from this fear is more common among middle-aged older adults (50-64 years) then older adults (65-70 years). In terms of gender, Jannique et al. (2017) did not identify differences on the relevance of 'preventing health problems' as a leading motive for older adults' sport participation. Likewise, opposite to belief that low socio-economic status groups are less health conscious, Gray et al. (2016) revealed 'diseases prevention' as an equally important motive among all socioeconomic groups. Within the prevention dimension of this first theme, avoiding physical decline, prolonging an

enjoyable life, preventing back pain and delaying body deterioration came through (Dionigi, 2006; Kolt et al., 2004; Pero et al., 2009; Smith & Storandt, 1997).

The second dimension is best characterised as *management* and is normally associated with the process of dealing or responding to a pre-existing health condition. Namely, it involves the use of sports and physical activity for targeted health purposes. One of the most common motives within this dimension is weight management (Gayman et al., 2017; Jannique et al., 2017; Kelley et al., 2014; Pike, 2012; Spiteri et al., 2019). This motivation seems to be prominent for middle-aged older adults (50-64 years) and women (Jannique et al., 2017; Spiteri et al., 2019). The literature also revealed a set of other important motives related to this notion of health management: the desire to reduce stress; injury rehabilitation; manage cardiovascular disease; maintain flexibility levels; minimize the effects of aging (normally related to a specific disease); maintain mental alertness; keep joint mobile (Jenkin et al., 2018; Kelley et al., 2014; Kolt et al., 2004; Pero et al., 2009; Smith & Storandt, 1997; Spiteri et al., 2019)

The first theme is well supported by related literature including Dionigi (2006), who noted that health benefits as a motive related to sport participation have been identified in many studies. Similarly, Stenner et al's. (2020a) systematic review also identified health-related factors (physical, mental and cognitive) as prominent among studies investigating older adults' motivations to sport. In a significant number of scientific studies, the health benefits of physical activity related to the aging process have been reported as motivation (Loprinzi & Frith, 2019; Troutman-Jordan et al., 2020). In a study by Buzzelli and Draper (2020) it was revealed that sport participation is primarily motivate by sought-after health benefits particularly among those who seek a less competitive and more friendly environment. It was also noted that older adults with no previous experiences in sport tend to focus more on the health benefits of exercises than individuals with past experiences (Smith & Storandt, 1997). This is one example of how other factors likely moderate motivation in the context of older sport participants.

### Enjoyment / Socialisation

The second theme emerging from the scholarly literature encompasses two related dimensions – *enjoyment and socialisation*. These have at times been presented as conceptually distinct (Dionigi, 2006; Heo et al., 2013). However, since others argue that socialisation through sport is closely linked to enjoyment (Dare et al., 2018) and this link was evident elsewhere, ideas are "packaged together" here. Indeed, codes related to the two dimensions featured at the initial stage of the analysis. Regardless of whether the dimensions of this theme are

conceptualised together or separately, the literature suggests it is sometimes linked to fears associated with loneliness (Jenkin et al., 2018; Kolt et al., 2004; Stenner et al., 2020a). Loneliness is directly associated with adverse health outcomes and increased mortality in older adults (Ong et al., 2016; Richard et al., 2017; Stenner et al., 2020b). Sport is a way to mitigate this threat by creating enjoyable moments trough socialisation.

The notion of enjoyment features prominently in the literature related to older sport participant motivation (Dionigi et al., 2011; Henderson et al., 2012; Heo et al., 2013; Kelley et al., 2014). However, the motive has not been investigated in-depth in the sense of identifying the intrinsic aspects that make 'sport' such a fun activity among older adults. Reasons as to why sport has been perceived as fun and, as such, an important motive for older sport participants include fostering feelings of excitement, generating enjoyable moments through learning something new and offering something completely different from day-to-day life (Gayman et al., 2017; Kolt et al., 2004).

The literature also suggests the existence of a profound motivational dimension related to socialisation (Gayman et al., 2017; Hodge et al., 2008; Young, 2011). Participation in sport is perceived as a means of providing older adults with a greater sense of belonging (Jenkin et al., 2018; Kelley et al., 2014). This, in turn, may also create a strong sense of emotional and mental support for older adults, which are crucial throughout the aging process. (Heo et al., 2013; Hodge et al., 2008; Jenkin et al., 2018; Kim et al., 2020; Wong et al., 2019). In this sense, the literature specifies some reasons why socialisation is a key motivation to older adults' participation. It has the capacity to provide an ideal context to build social networking. It gives opportunities to develop camaraderie, strengthens existing relationships and it enables the formation of long-life bonds and fellowships (Heo et al., 2013; Stenner et al., 2020a; Wong et al., 2019; Yamada & Heo, 2016).

Other studies suggest that *socialisation* as a form of motivation further contributes to the establishment of supportive relationships among older adults or, in other words, a 'social network of support' (Kelley et al., 2014). An emotionally supportive network helps older adults to experience aging in a more positive and healthy way. Furthermore, it also helps minimise the above-mentioned risks of loneliness that may eventually evolve into depression. This socialisation motivation leads to sharing experiences and getting the support of other older adults who might be under similar situations.

Given the multifaceted nature of *socialisation*, there are important gaps in the related literature. First, there is a need to better understand the influence of the collective aspects of sport in the construction of these 'social networks of support'. Second, there is an opportunity to further investigate the role of other factors (e.g. gender, ethnicity, socioeconomic level) on the perceptions of *socialisation* as a motive to participate in sports. Jannique et al. (2017) suggest that the socialisation is emphasised more by women than men. Likewise, the supportive networks arising from participation has motivated older adults from distinct socioeconomic levels differently (Gray et al., 2016). Therefore, investigating the influence of these other factors will help industry practitioners developing programs that reinforce the social aspect according to the different older adults profiles. This may help not only attracting, but also maintaining participation among older adults.

### Aging Redefined

The third theme relating to older sport participant motivation captures a desire to redefine the aging process. Two dimensions form this notion of age redefinition and how it manifests as motivation. The first dimension comprises myths and stereotypes associated with older adults, such as being frail, sedentary, unfit, of ill health, disabled and/or dependent (Dionigi, 2002, 2006; Jenkin et al., 2017). The second dimension relates to an unwillingness to accept aging, especially among middle-aged old adults, aged 50 to 64 (Dionigi, 2002). Sport and physical activity are perceived by older adults as a way to project a youthful image. Through sport, a new 'senior athlete' identity may develop that can serve to dispel stereotypes.

The complex process of creating new identities through sport participation was the focus of Dionigi's study (2002). It is a continuous process that involves the idea of "oneself in contrast with – or even in opposition to others" (Kleiber, 1999, p. 93). Namely, the construction of one's identity is based on comparisons with other older adults in the context of stereotypes. Developing or mastering new skills as well as expressing one's authentic self through sport may assist older participants in constructing a positive and strong identity that differs from other older adults (Dionigi, 2002). Furthermore, the construction of these new identities also involves a very particular aspect of sports, the *competition*. This important factor has been mainly investigated through the experiences of older adults in events like the World Masters Games and other national competitions (Dionigi, 2002; Grant, 2001; Heo et al., 2013; Reed & Cox, 2007).

Scholars are in conflict about *competition* and how it relates to older adult sport participant motivation. Dionigi's (2006) study addresses this by distinguishing between 'serious competition' and 'friendly competition'. The first, *serious competition*, refers to older adults who strove for success and are primarily motivated by beating other competitors, winning medals, as well as being recognised for successful performances. Motivation linked to this type of competition is more common among men and older adults with previous experience in sports (Kelley et al., 2014; Smith & Storandt, 1997). The second, *friendly competition*, refers to older adults who mainly compete to socialise, make friends and have fun. Regardless of whether it is 'friendly' or serious, *competition* is an important motive for older sport participants and relates to a desire to redefine aging.

Another motive associated with an attempt to redefine aging relates to one's physical appearance (Davey et al., 2009; Gayman et al., 2017; Smith & Storandt, 1997). Although it may be perceived as a physiological motive, appearance related motivation is often referred to by scholars as an attempt to express youthfulness for themselves and for others (Dionigi, 2002; Gayman et al., 2017; Pike, 2012), or in other words, redefine aging. According to Gayman et al. (2017) and Jenkin et al. (2016), the motive is normally emphasised by men and middle-aged older adults, aged 50 to 69 years old. Sport is perceived as a way to maintain or project a youth self-image, since regular levels of activity and a younger appearance can dispel stereotypes (Dionigi, 2002). In related literature it is also suggested that older adults desire to be a role model for their children, non-exercisers, or less experienced senior athletes is another important motive for participation (Gayman et al., 2017; Jenkin et al., 2018; Roper et al., 2003; Spiteri et al., 2019). The influence of role models is an important determinant of young adults' participation in sports (Casey et al., 2009) but little is known about this phenomenon in older adults.

In this review of literature, complexity related to the notion of "aging redefined" through sport was noted. Although evident, the nature of this motivation and what other factors moderate its effect is to be further explored. There is also an opportunity to further investigate distinguish between 'serious' and 'friendly' competition and how these notions feature within older sport participant motivation. Such investigation may help industry practitioners develop more effective program design and promotional tools.

### Self-fulfilment

It is quite clear that older adults are meaningfully driven by internal desires, such as satisfaction and self-fulfilment, rather than the external perceptions of image and capacity (Buzzelli & Draper, 2020; Dionigi, 2002). This is the essence of the fourth emergent theme related to older sport participant motivation. Older adults perceive sport as a way to reflect on their lives in spite of challenges they may face. New possibilities for exploration, as well as the reset of life goals feature here. The literature suggest that this type of motivation normally arises after retirement from full time work, which may possibly represent a defining point in life with respect to lack of regular activity, psychological stimulation and social contacts (Pike, 2012). That significant life event, as well as increasing inactivity, and transitions from middle to old age combine to create a unique phase in which many older adults become motivated to participate in sport (Stenner et al., 2020a).

As other two emergent themes, the coding process related to self-fulfillment suggests two dimensions. The first relates to a sense of new purpose through sport and physical activity (Dionigi, 2006; Heo et al., 2013; Kelley et al., 2014; Spiteri et al., 2019). The Kelley et al. (2014) study found evidence of this type of motivation among master athletes competing in Senior Games. According to the study participants, sport offers a sense of purpose in retirement due to the competition *preparations* as well as the event *rituals*, which involve structural changes to their daily lives. Additionally, these master athletes also reported important changes in their lives even after the competitions are over. According to senior swimmers in Kosteli et al. (2016), sports and physical activities has given them something to look forward to following retirement. The participants also found in sport a key to a meaningful life, as one respondent noted: "I think even more so now that I'm retired, and you need a purpose in your life and you think yes I've done something worthwhile and so on" (p. 736). There is an opportunity through future studies to better understand how the process of redefining life purpose through sport works. This may help industry practitioners to identify and explore particular aspects of sport that make it a more meaningful activity in comparison with other activities that older adults engage in.

The second dimension of the self-fulfilment motive captures the use of sport as a means to provide older adults with a greater sense of accomplishment and satisfaction (Buzzelli & Draper, 2020; Dionigi, 2002). For older adults, this notion is intimately connected with positive feelings associated with the performance of meaningful activities (Pike, 2012). In the literature it is suggested that satisfaction associated with 'being able to do it'; the opportunity to learn something new; and the recognition of abilities improvement are strong motives for older sport

participants (Dionigi, 2002; Kolt et al., 2004; Wong et al., 2019). Pero et al. (2009) indicate that the on-going learning process not only keeps older adults engaged in sports, but also improves confidence in other tasks outside sport.

It is evident from the body of literature that motivation related to self-fulfilment goes much beyond the physiological, belongingness and self-esteem needs that respectively characterises the three other themes. Unlike motivation that may be spurred from negativity like fear of injury, loneliness, or stereotypes, the self-fulfilment as motivational dimension is inherently positive.

### Conclusion

Overall, there is a relative dearth of research explicitly focused on motivation as part of the experience of older adults in sport and physical activity. The majority of the existing literature has focused on benefits of participation, as well as the experiences and outcomes of older adults participation in sports. From what literature that does exist and was analysed here, four major themes related to older adult sport participants emerged: *Health/fitness*, *Fun/socialisation*, *Aging redefined* and *Self-fulfilment*. The identification of these four themes through a critical analysis of existing research can contribute to an understandable and actionable motivational profile of older sport participants, as will be presented in Chapter 4.

### **Chapter 3: Government/industry reports**

### Introduction

In the context of physical activity including sport, older adults' perceptions of benefits and motivations, as well as engagement levels, have been investigated by a variety of government entities and industry organisations. These include national and local governments (European Union, 2020; Government of South Australia, 2004; Ministry of Health, 2013; United States National Prevention Council, 2016; Vic Health, 2017), sport organisations (Sport England, 2020; Sport New Zealand, 2016), as well as non-profit institutions focused on promoting healthy aging (Active Ageing Canada, 2019; National Seniors Australia, 2015). This workflow complements what has emerged from the academic body of literature on the topic and is very important to consider in the conceptualisation of older sport participants' motivational profile. Government interest in this topic is partly driven by an increasing proportion of older adults in the population and related economic impact. For example, according to Active Ageing Canada (2019), engaging 10% of Canadians in a minimum level of physical activity would inject \$1.6 billion back into the country's economy, while at the same time decreasing the healthcare spending by \$2.6 billion by 2040.

The present chapter is a critical overview of a selection of the most relevant government and industry reports. In addition to a focus on *identifying* aspects of older sport participant motivation, the undertaking also uncovered a variety of the demographic correlates of those motives as well as barriers and demotivators. What emerges here will also lead to practical implications related to the design and promotion of programs for older sport participants. As was the case with the previous chapter overviewing academic literature, clarification is also required here on terminology. Much of the reporting emerging from government/industry focuses broadly on physical activity in the first instance. This emphasis on the broader domain of physical activity is deconstructed and interpreted where possible to flesh out implications for sport contexts specifically.

### **Selection of reports**

At the outset of this phase of the dissertation, decisions needed to be made about which government/industry reports to review. Reports included in this chapter were selected based on a number of factors including being written in English. In the systematic literature review reported on in Chapter 2, five countries emerged in conjunction with the most relevant literature related to older sport participant motivation: Australia, Canada, New Zealand, the United States

(U.S.) and the United Kingdom (U.K.). Websites of entities based in these countries were therefore purposefully sought. These countries also report increasing populations of old adults. Each report that could potentially be included was carefully assessed in terms of its relevance with the topic. Specifically, each report was ultimately included if it specifically addressed older sport participant motivation. Reports were included from organisations such as Sport New Zealand, Sport England, and Sport for Life Canada. With these considerations in mind, thirteen reports were ultimately included in this analysis (Table 4).

Government/Industry Reports Summary

Table 4

			1					
TITLE	ORGANISATION	FOCUS OF INVESTIGATION	Physical Activity Levels - measurements on how the older adults population has being doing in terms of physical activity levels.	Physical Health - physical benefits (general or specific) associated with physical activities that defines older adults' motivational profile	Social - socialisation aspects associated with physical activities (create/maintain connections) that shapes older adults' motivational profile.	Psychological - sense of independence, self-fullfilment and positive self-expression associated with physical activities that shapes older adults' motivational profile.	Demotivators - Barriers or negative aspects that undermine older adults' interest in physical activities, and that also influence on their motivational profile.	Practical Recommentation Suggestions on how to plan, promote and mantain physics activity programs focused or older adults population.
What exactly is Physical Literacy? Perspectives from older adults and those who work with older adults	Active Ageing Canada	It explore the perspectives on the awareness and understanding of physical literacy among older adults and those who work with older adults.		0	0			0
Better with age - move more today for a healthier tomorrow. Report card on physical activity for adults	Active Ageing Canada	It provides a comprehensive assessment of how Canada is doing as a nation regarding the promotion and facilitation of physical activity among adults.	0	0	0	0	0	
Durable by design - Active for life	Sport For Life Canada	Durable by Design explores the Active for Life journey to discover how to help Canadians start and stay active.		0	0	0		0
Active Lives Adult Survey May 2019/20 Report	Sport England	It provides na update on the sporting and physical activity behaviours of adults in England.	0	0	0	0		
Spotlight on older adults and their relationship with sport and physical activity	Sport England	It delves into the differences in active and inactive levels at key life stages, besides explaining behaviour patterns and its possible reasons.	0	0			0	
Understanding participation in sport: What determines sports participation among recently retired people?	Sport England	It examines the underlying factors that determine recently retired older people's attitudes and propensity to take part in sport and physical activity.		0	0	0	0	О
How physically active are senior Australians? Evidence from national data	National Senior Australia	It assesses the physical activity of Australia's seniors by: measuring the prevalence of sufficient PA (self report and pedometer), the level of engagement in each type of PA, and differences among population groups.			0	0	0	0
Targeting mature age participants	Government of South Australia	It has been produced to assist sport and recreation organisations in catering for the rapidly expanding over 50's market.	0			0	0	0
Retirees - Physical activity insights	VicHealth (Victoria State Government)	It explores the attitudes and barriers to physical activity for Victorians at each life stages, and considers what would motivate them to change their existing behaviours.	0	0	0		0	0
Guidelines on Physical Activity for Older People (aged 65 years and over)	Ministry of Health (New Zealand Government)	activity for the different groups comprised in the ageing population.	0	0	0	0	0	0
Active Older People	Sport New Zealand	It provides initial insights in regard to the perceptions and attitudes of older adults in relation to physical activities, in order to support the sport sector on how the meet the needs and aspirations of older adults		0	0	0	0	0
Healthy Ageing in Action - advancing the national prevention strategy	United States National Prevention Council	It identifies specific actions for healthy aging that are continuing to improve health and well-being in later life.	0	О				О
Ageing Europe - Looking at the lives of older poeple in the EU	European Union	It provides a broad range of statistics that describe the everyday lives of the European Union's older generations.	0	0				0

Not one of the reports focused as explicitly on motivation as would have been ideal, which is telling about the priority of this phenomenon. Two other important observations were made during the analysis of the thirteen reports. First, there was a lack of consensus on the age range for older adults. The New Zealand reports, for example, refer to 'older adults' as people aged 65 years or older (Ministry of Health, 2013; Sport New Zealand, 2016), despite also stating that "chronological age can be misleading" (Sport New Zealand, 2016, p. 2). The U.K. reports refer to older adults as those aged 55 years and older (Sport England, 2006; 2018, 2020). In Canada some organisations refer to older adults as those age 50 and over (Stathokostas et al., 2020), while others use 65 and over as the benchmark, which is the same age range used in the U.S. report (National Seniors Australia, 2015; United States National Prevention Council, 2016).

The second noteworthy observation is that, across the board, the number of older adults participating in sports and physical activities is low and/or decreasing. Canada, for example, has the lowest percentage of physically active older adults over 65 with just 16% accumulating at least 150 minutes of physical activity per week (Active Ageing Canada, 2019). Conversely, England has the highest percentage, with 50% of older adults achieving the recommended level of physical activity (Sport England, 2020), although this statistic captures a lower age range. The European Union (43%), Australia (38%), New Zealand (34%), and United States (34%) report similar levels of physical activity (European Union, 2020; Ministry of Health, 2013; National Seniors Australia, 2015; United States National Prevention Council, 2016) based on World Health Organization' (WHO) physical activity guidelines.

These two observations have important implications, both in the context of the current analysis of motivation as well as more broadly. The first necessitates careful interpretation of any statistics of insights because there is not a common denomination on age ranges, while the second is stark evidence of just how important it is for us all to better understand why older adults engage in sport to help arrest the decline. The next section is the presentation of the five prominent findings that emerge from the reports.

# **Findings**

The review of governments/industry reports has revealed five important findings. These findings emerged through a process of searching for commonalities related to older adult participant motivation across the thirteen reports. The overarching analytic approach was similar to what was implemented in conjunction with Chapter 2.

- 'Physical activity' is used more often than 'sport' to characterise the domain.
- There is a prominent physiological dimension within older sport participant motivation.
- Life-changing events and transitions lead to socialisation and relate to motivation for older sport participants.
- A psychological dimension of motivation manifests as a desire to maintain independence.
- Demotivation plays a role for older sport participants.

## **Terminology**

Use of the term 'physical activity' within the context of older adults is well-established across government and industry reporting on this topic. Use of 'physical activity' as an alternative to 'sport' has an impact on the conception of a motivational profile for older sport participants. There is overlap, but 'sport' has negative connotations among some in the older adult population. According to the Government of South Australia (2004), the term 'sport' generally brings connotations of "competitions and children's sports" (p. 10), which are not likely to inspire interest. Similar perceptions are also reported in the New Zealand and England material (Sport England, 2006; Sport New Zealand, 2016, p. 6).

Although some older adults might find a program characterised as 'physical activity' rather than 'sports' more appealing, there may be a misconception among older adults in regard to what actually constitutes a physical activity (National Seniors Australia, 2015). The discrepancy may be that older adults over-estimate how rigorous an activity actually is. Using the term 'sport' may discourage some older adults from being active, but there is also an opportunity to reframe rigorousness perceptions of both sport and physical activity. There is an opportunity to reframe sport as an attractive activity option for older adults. Despite overlapping or even confusing use of terminology in reports on older adults participants, the insights from these reports still make an important contribution to the conception of a motivational profile.

# The physiological dimension

The most prominent motivational dimension for older sport participants across the government/industry reports is physiological. It is a fundamental dimension of motivation for this group in this context (Dionigi, 2006). Older adults who are motivated by the health benefits can be categorised into two distinct groups. The first group comprises individuals who pursue

the broader health benefits, not directly linked to a health condition. These are older adults who perceive sport and physical activity as a way to maintain health levels, maintain mobility, control weight, prevent injuries, perform daily activities, and prolong their life (Sport England, 2006; Sport New Zealand, 2016; Stathokostas et al., 2020).

The second group is comprised of older adults who seek particular health benefits from their engagement in physical activity. This may be cardiovascular health, obesity, osteoporosis, musculoskeletal disability, blood pressure, functional capacity, cancer, arthritis, diabetes, among other particular needs (Ministry of Health, 2013). It is evident that the second group is older than the first (Active Ageing Canada, 2019).

There is an opportunity for further research to understand how the physiological dimension of motivation develops and is experienced by these groups. A deeper exploration of this may assist industry practitioners in the development of tailored programs reflecting the specific needs of these groups. Figure 2 depicts these two groups based on physiological motivation differences.

Figure 2

Specific Health Issues That Drive Physiological Motivation

BROADER	DESEASE-RELATED
Perform daily activities	Arthritis
Maintain mobility	Obesity
Weight Management	Osteoporosis
Prevent Injuries	Diabetes
Maintain health levels	Cardiovascular health
Prolong life	Musculoskeletal disability

### The social dimension

The government/industry reports also indicate that life-changing events or specific transitions in old adults' lives spur socialisation-related motivation in conjunction with physical activity (European Union, 2020; Sport England, 2006; Sport England, 2018; Sport For Life Canada, 2016; Vic Health, 2017). Retirement from full-time work, the arrival of grandchildren, the loss of a partner, or simply moving into a new home might be some of these life events

(Sport England, 2006; Sport For Life Canada, 2016). In fact, retirement from work may be the most radical change for an older adult and has been widely discussed in regard to its influence on perceptions and attitudes toward physical activity (Sport England, 2006).

It came through in the various reports that retirement is viewed in a positive light by most older adults, as it represents freedom, reduced stress, and a sense of being rewarded (Sport England, 2006). However, it might also bring loneliness and a lack of purpose. New responsibilities may emerge, such as providing care for aging partners, commitments to new family roles, and other activities (such as volunteering or gardening) (European Union, 2020; Sport England, 2018; Sport New Zealand, 2016). Importantly, this life stage also brings the desire to keep busy by meeting and engaging with other people. This is a gateway to participation in sport and physical activity (Sport England, 2018; Sport For Life Canada, 2016).

Not being able to find ways to connect with others (through sport or any other activities) can have negative effects for older adults. According to the Sport England (2018) report, "a higher proportion of older adults live alone and are at risk of isolation, compared to the rest of the population" (p. 3). Among potential causes are the lack of mobility and shrinking social networks linked to retirement (Active Ageing Canada, 2019). In Canada, for example, research revealed that one in five adults experience some level of loneliness and isolation, which can contribute to "cognitive decline, depression and social anxiety" (Active Ageing Canada, 2019, p. 11). Therefore, in the face of this social challenge and considering their increasing desire to meet or mix with other people, national governments and organisations encourage social programs as a means of benefiting older adults' wellbeing. The intention is that they feel more socially integrated, less lonely and less depressed, thus improving their overall health levels (Ministry of Health, 2013).

As noted in the Sport For Life report (2016), participating in physical exercise either at home or in a supervised group might improve mood equivalent to a low-dose anti-depressant in patients with depression (Blumenthal et al., 2007). The social dimension of physical activities has been also frequently pointed to as an important motive to older adults' participation (Sport England, 2018; Sport New Zealand, 2016; Stathokostas et al., 2020; Vic Health, 2017). As described by a respondent in the Sport England report (2006), "socialising is a good by-product of taking exercise" (p. 31). In another statement, an active old woman emphasised the social factor as the main reason for her involvement: 'A keep fit class...in a gentle, nice way, a social thing' (p. 38).

It is evident that older men and women experience the social dimension of sport participation motivation differently. According to VicHealth's (2017) report, retired Australian men are less likely than women to feel that meeting up with friends or team mates makes exercise more enjoyable. More specifically, less than a half of the study participants (46%) agreed that it is preferable to exercise with someone else, which indicates a potential barrier for men. Conversely, retired women see socialisation as part of physical activity more positively and even find it easier to exercise with someone else. The social dimension of motivation may also differ based on ethnicity and cultural backgrounds.

As outlined in the Sport New Zealand report (2016), although socialisation is widely perceived as a key reason why many older adults enjoy participating in community sport, it might also be a barrier among specific ethnic groups. According to the Sport New Zealand report, Maori, Pacific and Asian populations mention cultural norms, expectations, and socioeconomic considerations as barriers to their participation in community sports (Sport New Zealand, 2016). Based on these contrasting perceptions, some national governments and sport organisations have developed guidelines on how to explore or address the different aspects of the social dimension when developing programs, in order to motivate as many people as possible.

Based on the reports reviewed here, distinct activities for men and women in some cases may be appropriate based on disparate socialisation motivation. For example, some older women may feel embarrassed exercising in public or in front of other men (Vic Health, 2017). It is also important to better balance between the 'competition' and 'socialisation' elements of programs for older sport participants, as some may have a long history in a given activity, which may minimise the socialisation motive (Sport For Life Canada, 2016). In one report (GOSA, 2004), an opportunity to offer separate activities just for socialising such as group lunches, or trips was identified. For events like World Masters Games or other local senior competitions, there is an opportunity to embed socialisation in many aspects of the experience.

### The psychological dimension

Negative stereotypes in part fuel the psychological dimension of older sport participant motivation. According to the Government of South Australia (2004), perceptions such as 'aging is a phase of mental and physical decline', 'older people are all the same', and 'older people are frail and dependent' are some of the stereotypes and images of aging that are still perpetuated and that directly affect self-perceptions. Consequently, this creates a risk of some older adults

feeling like a burden to other family members or that they are losing the respect of others and ultimately becoming unimportant, which in turn might lead to loneliness and depression (Sport England, 2006). Many older adults are driven to dispel these notions and it fuels motivation to be physically active and participate in sport.

For older adults, there is also a real risk of falls, which might affect one's ability to perform daily tasks and compromise independence. Many older adults therefore perceive sport and physical activity as a way to minimise these risks and remain self-sufficient (Stathokostas et al., 2020). As demonstrated in the Active Ageing Canada's (2020) report, some older adults mention that 'it is important to be mobile as much as possible, to be independent', while others affirm that it enables to 'keep care of yourself more and be less a burden to others' (p. 8). These fears are prominent and translate into this dimension of older sport participant motivation. There is an opportunity to acknowledge this in program design and promotion, perhaps framing a positive message around images of strength and independence.

In addition to their desire to feel more independent, the government/industry reports also point to other psychological aspects that define the motivational profile of older sport participants. Among British older adults, for example, the simple enjoyment of activity, the opportunity to have their 'own space', and not feeling or appearing lazy to other are some other motives to participate in physical activities (Sport England, 2006). These aspects are underpinned by the continuous and complex process of dealing with aging. So, the psychological dimension of older sport participant motivation includes dispelling aging stereotypes, expressing an independent and vital image to others, accomplishing difficult tasks or learning new ones, and consequently, redefining aging (Buzzelli & Draper, 2020; Dionigi, 2006; Kelley et al., 2014)

#### **Demotivation**

Across the reports, another prominent theme came through clearly, which is conceptually opposite to the other three dimensions. In order to fully understand the motivation of older sport participants, demotivation (i.e., being without motivation) must also be considered (GOSA, 2004; Sport New Zealand, 2016). Many recognise the importance of being physically active and all its benefits (physical, social and psychological), but are not motivated enough to take action. In Canada, although 68% of those aged 65 and older intend to be active, only 15% actually reach minimum recommended levels of physical activity (Active Ageing Canada, 2019). Helping older adults overcome challenges and find the motivation to participate

is very important (Sport England, 2018). It is worthwhile to consider barriers in this wider discussion of older sport participant motivation because they can underpin demotivation.

Financial costs associated with sport and physical activity can be demotivating. Among the main expenses identified in the reports are the gym membership, equipment and apparel needed for some specific activities, such as golf, swimming, cycling (GOSA, 2004; Sport England, 2018; Sport New Zealand, 2016). For example, among retired Australians (active and non-active) financial costs are indicated by 67% of people as the main barrier to physical activity (Vic Health, 2017). Budget restrictions also exert an influence on the types of activities that older adults choose to participate in. This is demonstrated by the fact that the most popular physical activity among the countries investigated (except in U.S) was walking, which has the lowest costs associated (Sport New Zealand, 2016; Ministry of Health, 2013; Active Ageing Canada, 2019; Sport England, 2018; National Senior Australia, 2015). As demonstrated in the Sport England report (2006), people from higher socio-economic groups are three times more likely to participate in sport than people in lower groups.

A lack of information on how to get involved in physical activity programs can also be demotivating. Among Canadian older adults, difficulty finding the necessary support services' (31%), and difficulty finding the right coaching/instruction (25%) are linked to non-participation (Active Ageing Canada, 2019, p. 36). In the report from Government of South Australia it was indicated that older adults who have no previous experience with a given activity are less likely to be aware of an ultimately participate in programs (GOSA, 2004). Even when aware of an activity, inexperienced older adults may be unsure as to 'whether it is an appropriate activity for their age and ability level' (p. 9). Doubting oneself can be demotivating.

The lack of motivation as a result of fear is multifaceted and can take many forms. The most common type of fear identified in the reports relates to the risk of injury, which is pointed by both active and non-active older adults as a barrier to physical activities (GOSA, 2004; Sport England, 2006; Sport New Zealand, 2016). There is overlap here in that the psychological dimension of motivation identified earlier may play out positively and drive an older adult to better themselves, while for others it may manifest more negatively and become a demotivator. Such fear may ultimately demotivate older adults who are otherwise interested in physical activity or sport. Injuries can be caused by over-doing exercises, doing exercises unsuitable for the current conditions, joint damage, or the aggravation of an existing condition (Sport England, 2006). Conversely, in some reports the 'injury' factor was framed more positively. According to Sport For Life Canada (2016), facing a major injury or dealing with an specific health

condition can serve as a "wakeup call or turning point that can be framed as a motivation to reassess exercise routine" (p. 22).

A fear of embarrassment might also demotivate older adults from participating in sport or physical activity. This type of fear might be also influenced by gender or ethnicity and is specifically addressed in the Australian and New Zealand-based reports (Ministry of Health, 2013; Sport New Zealand, 2016; Vic Health, 2017). In the VicHealth (2017) report it was observed that retired women generally find sport clubs, gyms and fitness centres intimidating. This negativity may relate to both the way they look to others and their ability when they compare themselves to younger people. Additionally, the report also observed that the majority of retired women also 'feel embarrassed exercising in public and are uncomfortable in exercise clothes' (Vic Health, 2017, p. 3). Similarly, among men, almost half also stated that gyms and fitness centres are intimidating. The 'uninviting environment' issue was also raised among New Zealanders old adults, where the embarrassment caused by cultural norms or differences also demotivates Maori, Pacific and Asian population to have greater participation in physical activities (Ministry of Health, 2013).

#### **Conclusions**

Through the analysis of a range of recent government/industry reports related to older sport participants, it is clear that understanding and reporting on motivation has not been the primary focus. Taken together, the reports indicate that the primary motivation among older adults relates to the physiological benefits associated with sports and physical activities. The socialisation dimensions links primarily to later-life transitions (Sport England, 2006; Sport For Life Canada, 2016). A psychological dimension of older sport participant motivation was also evident across the various reports (GOSA, 2004). Specifically, older adults have a strong desire to achieve independence and combat stereotypes. Some aspects of the psychological dimension also manifest as demotivators including a lack of information or various fears.

The analysis has also revealed that various demographic and behavioural factors interplay with the three older sport participant motivational dimensions so should be considered carefully by practitioners. In this sense, there is an opportunity for future studies to further explore how these other aspects influence the motivational profile. This analysis will benefit industry practitioners in terms of both program design and promotion.

# **Chapter 4: Findings Synthesis**

The aim of this dissertation to conceptualise an understandable and actionable motivational profile of older sport participants, so this chapter brings together the findings of the two previous chapters focused on academic literature and government/industry reports. First, several observations regarding the context of this research are provided which may be useful for both scholars and practitioners to consider. Second, the four emergent dimensions comprising the motivational profile of older sport participants is presented and discussed. Third, each dimension is further examined in relation to a seminal theory of human motivation – *Maslow's* (1943) *Hierarchy of Needs*.

#### Observations about the research context

A number of observations have been made throughout the development of this dissertation that relate to the overall research context but not the emergent motivational profile as such. The first is the varied use of the terms sport and physical activity and how each are used in the context of older adult participants. Each term appeared in the various materials that were analysed sometimes separately and/or complementarily. In some studies, the use of the terminology was explicitly addressed (Kim et al., 2020; Stenner et al., 2020a) but in others, use of the terminology was without accompanying definition or discussion. It is generally agreed that physical activity is a broader concept involving "any bodily movement produced by the skeletal muscles that uses energy above resting level" (World Health Organisation, 2020). Conversely, sport is generally considered a subset of physical activity that requires physical skills and features competition (Jenkin et al., 2017; Kim et al., 2020). Notably, there is a prevalence of the term *physical activity* within the governments/industry reports. This may be due to the negative connotations of the term *sport* among older adults, as it might be perceived as 'too competitive or 'too intense' (Sport England, 2006; Sport New Zealand, 2016), which could have been captured in reporting more than research. Using the term sport in programs focused on older adults might negatively affect their interest. There is therefore an opportunity to explore further and generate evidence related to this. Overall, terminology should be carefully considered for both research and program design in this context.

The majority of the academic research on the motivations of older sport participants has been supported by a handful of well-established theories. Namely, Achievement Goal Theory (Nicholls, 1984), and Self-Determination Theory (Ryan & Deci, 2000). These behavioural theories have underpinned a large number of scientific studies, exploring physical

activity and sport through a psychological lens (Boyle et al., 2021; Kang & Bae, 2020; Kibele et al., 2021; Mollinedo-Cardalda et al., 2021). Conversely, government/industry reports have mainly featured a managerial lens for the discourse. Addressing physical activity levels among older adults have been the primary focus of these reports. Physical activity guidelines and the related effects for the population feature prominently (Active Ageing Canada, 2019; National Seniors Australia, 2015; Sport New Zealand, 2016; United States National Prevention Council, 2016). This focus on activity levels is likely due to low rates of participation and related economic impact that governments must report on (AAC, 2019; EU, 2020; Ministry of Health, 2013; NSA, 2015; SE, 2006). Therein lies the value of the approach encompassing both sources of data in the present dissertation. Consideration of the underlying psychology of older sport participants from the academic literature may help to address low rates of participation outlined in the government/industry reports.

Despite the use of different lenses, both the academic literature and government/industry reports emphasise the importance of analysing older adults as a heterogeneous group in regard to their motivations. This necessitates a more in-depth understanding of the factors related to the motivations of individuals. Scholars and practitioners have suggested gender, marital status, socioeconomic levels, ethnicity and cultural background as some of the factors that may help distinguish groups of older adults with different motivational profiles (Gray et al., 2016; Jannique et al., 2017; Ministry of Health, 2013; Young, 2011). There is an opportunity in future studies to generate more evidence in regard to the influence of these factors on older sport participant motivation. This can help industry practitioners develop programs targeting the needs and motivations of specific groups.

#### Motivational profile dimensions for older sport participants

Four distinct dimensions related to the motivation of older sport participants have emerged in this study. Use of the word *dimension* to characterise the profile components warrants further discussion. Dimensions have been defined as 'directions' or 'paths' (Carroll, 2019), which is appropriate in the context of this study. The dimensions that emerged here resemble paths that lead to sport participation. Each of the four dimensions are multifaceted, capturing related drivers (or paths) that manifest in different ways but are respectively underpinned by the same basic need. Bringing together dimensions to form a *profile* is also appropriate in the context of this study. A profile reflects a set of characteristics that identify individuals as belonging to a certain group (Merriam-Webster, 2021). Therefore, framing the

motivation of older sport participants as *dimensions* comprising a *profile* is understandable and hopefully actionable for practitioners.

The four dimensions defined in this chapter are the result of a simultaneous examination of two distinct 'sources' in this dissertation - existing academic literature and the government/industry reports. These two sources are distinct in that they comprise the perspectives of individuals and organisations with different interests, paradigms, and lenses for exploring and understanding older sport participants. If analysed in isolation, insights will be narrower and implications will be less grounded. A robust body of work is evident from both sources and they should be considered complementary in this effort to conceive a multi-dimensional profile. This complementarity facilitates a more holistic construction of an older sport participants motivational profile. The profile presented here is underpinned by well-established motivational theories, is evidence-based and also reflects the more practical and managerial lens of those in industry.

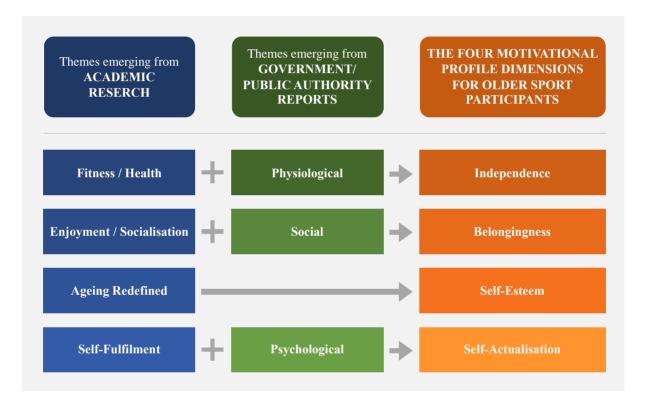
The analysis of academic research and government/industry reports revealed a considerable range of drivers underlying older adults participation in sport. In Chapters 2 and 3, themes were presented related to each source type. Here, those themes are merged to generate the four motivational profile dimensions for older sport participants. The 'Fitness/Health' theme from Chapter 2 merges with the 'Physiology' theme from Chapter 3 to become the Independence dimension in the profile. Similarly, the 'Enjoyment/Socialisation' theme from the academic literature merges with the 'Social' theme from the government/industry reports to produce the second profile dimension, Belongingness. The third dimension, Self-Esteem, is different in that it is entirely based on the 'Age Redefined' theme, from the academic literature. The profile dimension label and underpinning evolved nonetheless such that it is presented with terminology to align with the other dimensions. Furthermore, the reframed dimension label makes the insights potentially more understandable and actionable to industry practitioners. Finally, the 'Self-Fulfilment' theme from the academic research merges with the 'Psychological' theme from the government/industry reports to produce the fourth dimension, Self-Actualisation. The conceptual thinking behind each of these mergers and the final profile dimensions are discussed in depth in the following sections.

This profile and its dimensions are not meant to be completely inclusive of every motivation and related factor that may drive and older sport participant. It is acknowledged that the underlying psychology is complex. Rather the focus here is lifting up the most prominent

drivers that have come through and to capture them with plain and actionable dimension labels. In effect, it is an alternate and simpler way to capture the key aspects of older sport participant motivation based on what we know at the moment from both sources. To this point, no such effort has been undertaken with streamlining such a priority. Figure 3 depicts the merging process that lead to the final motivational profile.

Figure 3

The Motivational Profile Dimensions for Older Sport Participants



#### First dimension – Independence

The first dimension of a motivational profile for older adults is associated with the health benefits of sport and physical activity but is ultimately best characterised as a quest for independence. The analysis suggests that this desire mainly arises from older adults' fears of getting injured, becoming ill, or the emergence of any symptoms associated with the ageing process (Spiteri et al., 2019; Yarmohammadi et al., 2019). This prominent aspect of motivation has been extensively discussed and often identified as the primary reason for older adults participation by both scholars and practitioners (Dionigi, 2006). The prominence of this dimension across the two sources is noteworthy. Its importance is often presented alongside discussion of economic factors and strain on health services (Mamun et al., 2020; Nagarajan et

al., 2017; Rosselli & Hernández-Galvis, 2016). Distinct sub-dimensions of physiology-related motivation that link to subset of older sport participants are also evident across the two sources.

Clear from the material that was analysed, is the presence of a subset of older sport participants motivated by broader wellbeing benefits, not necessarily linked to a specific health condition. These individuals are primarily motivated by the general health benefits of sport, normally associated with the prevention/delay of ageing-related physiological issues. Conversely, a second subset is comprised of older adults who seek physiological benefits attainable through sport participation and linked with specific health issues. Those individuals may have experienced issues associated with cardiovascular health, osteoporosis, musculoskeletal disability, blood pressure, functional capacity, cancer, arthritis and diabetes (MH, 2013; RWJF, 2016). Other specific health issues that drive the second subset of older sport participants are obesity (or weight management), stress and injury rehabilitation. It can be argued, that a conscious effort to address a health issue is inextricably linked to independence maintenance or re-establishment.

The subsets based on a physiologically-driven need for independence are linked to demographic characteristics. For example, within the specific-health issue subset, there is a prevalence of women and individuals aged between 50 and 64 (Jannique et al., 2017; Spiteri et al., 2019). That subset is also typically of higher socio-economic status (Gray et al., 2016). More research is needed to further explore demographic and other correlates of physiological need, how this relates to a desire for independence and how this ultimately drives older sport participants. Regardless of the physiological focus (broad or specific) and the potential influence of other factors, it appears that interest in obtaining physiological benefits through sports reflects older adults' deep desire to ensure 'physical' independence. Effectively, this means prolonging the ability to perform daily activities that, otherwise, would require the support of others which, in turn, may foster a sense of dependency.

## Second dimension – Belongingness

The second dimension of the older sport participant motivational profile relates to a desire for socialisation but is best labelled as *Belongingness*. Sport generally creates a family-like atmosphere, which provides the ideal context for older adults to establish social networks, as well as to strengthen existing relationships and develop camaraderie (Heo et al., 2013; Jenkin et al., 2018; Stenner et al., 2020a). Furthermore, the analysis suggests these collective experiences contribute to the emergence of social networks of support among these older sport

participants. This, in turn, provides a sense of security that helps them to feel more positive about the ageing process.

From the analysis, it is clear that belongingness flows from fears such as loneliness and isolation (Jenkin et al., 2018; Pike, 2012). Loneliness is a phenomenon directly associated with adverse health outcomes and increased mortality among older adults (Stenner et al., 2020b). In addition to these common fears which often lead one to seek belongingness, specific life-changing events, such as retirement from full-time work, and the loss of partner as some important events also play a role (Kang & Bae, 2020; Pike, 2012; Spiteri et al., 2019).

This dimension of the profile is also well grounded in both the scholarly literature and government/industry reports. The analysed material suggests that older adults seek fun as a strong motive for their participation and that this is fundamentally linked to being with others. Sport and physical activity provide older adults with a sense of excitement and an environment to learn new skills, both of which are inherently social and lead to a feeling of belonging. Inherently social activities improve older adults mood to similar degree as low-doses of antidepressant (AAC, 2016). Many older adults likely sense this and therefore actively seek out environments in which they feel as though they belong.

Sport-based socialisation motives are particularly strong for women and middle-aged older adults (Jannique et al., 2017; Spiteri et al., 2019), but less known about other correlates of this motivational dimension. There is an opportunity to further investigate other factors linked to belongingness and older sport participants. Older adults are driven to share experiences with others and feel supported as a means to feel belongingness.

### Third dimension – Self-Esteem

The third dimension of the older sport participant motivational profile, conceptualised and labelled here as *Self-esteem*, is grounded almost entirely in the scholarly literature and not the government/industry reports. Nevertheless, the dimension is both intuitive and foundational, so must be included. Notions of frailty, inactivity and a lack of fitness are referred to in the literature (Dionigi, 2002, 2006; Pike, 2012), but it is argued that these fundamentally relate to a desire to maintain or increase self-esteem and sport is a context in which that can be done for older adults.

Sport is perceived by older adults as a way to challenge these negative stereotypes. Dispelling these often involves projecting youthfulness to onlookers and sometimes the construction of new identities as 'senior athletes'. The process may involve presenting "oneself

in contrast – or even in opposition of others" (Kleiber, 1999, p. 93). In other words, these new identities are normally constructed based on comparisons with non-active older adults, or the negative stereotypes. Overall, this is really about building self-esteem and comprises an important driver of participation for older adults.

It is clear from the literature and reports that the way an older adult perceives and experiences competition relates to self-esteem and drives participation. There are two different ways in which *competition* links to motivation among older adults. Some strive for success and are primarily motivated by the opportunity to win and potentially be recognised. Others view competitions as an opportunity to socialise, make friends and enjoy the moment. It is evident from the literature that regardless of how competition is perceived, it forms a crucial part of an older sport participant's identity in the context of sport and when there is alignment between perception and experience, links to self-esteem.

Deconstructing aging stereotype is a powerful motivation for older sport participants and aligns to the maintenance or development of self-esteem. Many older adults seek to serve as role models for others in the context of sport by demonstrating youthfulness to others. This includes family (especially grandchildren), older adult non-exercisers or other less experienced senior athletes. In this sense, sport provides opportunities to project youthfulness to other generations, as well as to be perceived as role models (Jenkin et al., 2018). Therefore, just like how an older adult perceives competition, role modelling and the projection of youthfulness is also an essential part of a sport-based identity. When an older adult is satisfied in this regard, self-esteem follows — which is likely the underlying driver.

## Fourth dimension – Self-Actualisation

As a result of the current analysis of literature and government/industry reports, it is evident that the fourth motivational dimension – *Self-actualisation* - is related to but separate from the other three. It is related to the extent that if older adults are meeting independence, belongingness and self-esteem needs in other parts of their lives, those factors may not be prominent drivers of their engagement in sport. It is effectively a higher-level motivational dimension for older sport participants.

Some older adults have a clear sense of their own limitations and capabilities, self-worth, and a positive self-image. For older adults of this ilk, participation in sport may be about seeking/reinforcing purpose or a sense of accomplishment. The literature and reports allude to retirement from full-time work as a significant influence on the prevalence of the Self-

actualisation motive. Studies have explored the role of sport in this specific moment of older adults' lives and its capacity to provide "something new in their lives", and also be an effective means to establish purpose (Dionigi, 2006; Heo et al., 2013; Kelley et al., 2014; Pike, 2012; Spiteri et al., 2019). More specifically, the construction of new life purposes through sport has come through in research in the context of sport competitions for seniors. According to senior athletes in the Kelley et al.'s (2014) study, sport has offered a purpose later in life due to competition preparation phase, as well as the rituals during the events. Such fulfilling moments experienced as part of these events, positively impacts lives even after the competitions, when back to usual routines.

Older sport participants are motivated by a desire for a sense of accomplishment and satisfaction. The synthesis here indicates that such powerful feelings are normally associated with the performance of meaningful activities and the positive feeling arising from them (Heo et al., 2013). A feeling of competence leads to positivity and is therefore an important sport participation motive (Buzzelli & Draper, 2020). It was evident through this analysis that an ongoing learning process leads to self-fulfilment and also links to sport participation motivation. This generates the feeling that potential is being developed, despite all limitations. This all relates to an older sport participants' desire to reach their full potential, the essence of self-actualisation Although the notion of self-actualisation is relatively abstract compared to the other motivational dimensions, it is still very practicable for those designing and promoting programs for older adults to tap into.

## Alignment to Maslow's Hierarchy of needs

The analysis of both academic literature and government/industry reports have revealed four distinct dimensions which comprise a motivational profile of older adults: 1. *Independence*; 2. *Belongingness*; 3. *Self-Esteem*; 4. *Self-Actualisation*. These needs motivate or stimulate individuals to participate in sports later in life (Schmutte, 2018). In addition to influencing individuals actions, these needs are also a reflection of what is required from people to survive and live in society (Maslow, 1943; Schmutte, 2018). In fact, it is noteworthy the extent to which the four dimensions of older adults' motivational profile that emerged here align to four needs outlined in *Maslow's Theory of Human Motivation* (Maslow, 1943).

The hierarchy of needs explains human behaviour in relation to the basic requirements for survival and growth. These requisites, or needs, are organised according to their importance for survival and their power to motivate the individual (Maslow, 1943). Within the context of

the present study, these needs align with profile outlining the primer drivers of older adults participation in sports and physical activity. The hierarchical nature of the framework means that more basic needs must be satisfied before other higher-order needs (Maslow, 1943). However, the author also indicates the flexibility of the framework by stating that the process of fulfilling needs do not always necessarily follow this 'rigid' hierarchy. Within sport participation contexts, this is particularly the case. In fact, the 'categorisation' of an individual as particularly motivated by a certain dimension is likely closest linked gender, age, socioeconomic level, cultural background and ethnicity. Moreover, there is always a need (or motivation) with stronger influence than others, but his does not prevent individuals from having secondary motivations. Note that Maslow's "safety" need is left out of this discussion.

The first level of Maslow's hierarchy of needs, physiological, represents fundamental body requirements in order to survive, such as hunger, thirst, sex and sleep (Maslow, 1943). If unmet, individuals will focus on satisfying these needs before any others. Within the context of older sport participants, the needs associated with the physiological benefits of sports reflect primary motivation for their participation. As discussed, this motivation is connected to a very basic necessity of preventing and/or managing health issues that might compromise older adults main 'instrument' of survival, their bodies. In this sense, sport and physical activities provides them with the opportunity to keep their bodies healthy (or as close as), in order to enable them to perform daily basic activities that evidence their 'physical' independency. Although people of other age groups are driven to participate in sport, this seems particularly pronounced with the focal group here – older adults.

The 'love and belonging need' needs in Maslow's theory represents an individual's desire for affectionate relations with people, the need to belong to a certain group, as well as to feel accepted by others (Maslow, 1943). There is clear alignment here to the belongness dimension of the older sport participant profile. The collective nature of sports and physical activities generally creates a family-like atmosphere that provides the ideal context to create and strengthen interpersonal relationships. This, in turn, contributes to the establishment of support that generate a strong sense of security and support among older adults. Furthermore, older adults desire to share experiences and fears with others as a means to feel belonging (Jenkin et al., 2018; Kelley et al., 2014).

The 'esteem needs' level of Maslow's hierarchy encompasses both self-esteem and the esteem of others. The first involves an individual's perception of being capable, competent and confident in the face of the word. The second represents the desire for respect, recognition and

appreciation from other people (Maslow, 1943). Within the context of older sport participants, both needs are intimately related to widespread negative stereotypes of ageing. In this sense, older adults perceive sport as a way to challenge these negative discourses by performing activities that are normally seen as not 'age-suited'. This, in turn, fosters higher levels of self-esteem, as it helps transform their identities from 'normal' older adults to 'senior athletes'. Furthermore, it also improves their esteem of others by enabling them to project more youthful and stronger images that, in turn, opposes the dominant and less respected discourses of ageing. There is a hierarchical element in here in that a sense of belongingness is likely necessary for an older sport participant to enhance or maintain self-esteem.

The highest level of Maslow's hierarchy of needs, self-actualisation, refers to an individuals' desire to become everything that one "is capable of becoming" (Maslow, 1943, p. 383) and directly aligns to one of the profile dimensions. This includes the desire to focus on specific activities that help one find deeper meanings in life. This higher level of need also involves the development of talents and abilities to the fullest extent (Schmutte, 2018). In this sense, contrary to other needs, older adults that are driven in this way accept their physiological limitations, feel good about themselves regardless of others' opinions and have a self-image similar to their ideal self. As a result, sport is perceived much beyond the physiological, social and esteem needs, but as a way to build a new purpose in their lives. Perceptions of competence to practise sport successfully lead to self-actualisation feelings that, in turn, drive an older adult to continue their participation.

Consideration of the emergent dimensions comprising older adults' motivational profile alongside Maslow's Theory of Human Motivation allows for important context. The theory reinforces and underpins each dimension of the profile presented here. In addition, the exercise suggests a continuum or potentially even hierarchy of sport participation motives for older adults. In the context of sport for older adults, motivation likely ranges from quite foundational (i.e., seeking physiological benefits), to more profound or abstract needs like finding new purpose.

# **Chapter 5: Discussion**

The current analysis of literature and government/industry reports has revealed four distinct dimensions which – taken together - comprise a profile of older sport participant motivation: 1. Independence; 2. Belongingness; 3. Self-Esteem; 4. Self-Actualisation. Important implications for industry practitioners, as well as gaps and opportunities to be addressed in future studies related to this profile are covered in this chapter. The ideas discussed in this chapter are presented in a way intended to be understandable beyond an academic audience and actionable for practitioners.

## **Practical implications**

The motivational profile of older sport participants that has been presented in this dissertation has important practical implications. As outlined in Chapter 4, older sport participants are motivated by four prominent needs, which are *Independence*, *Belongingness*, *Self-esteem and Self-actualisation*. Sport managers designing sport programs and events for older adults should carefully consider these needs both in term of how programs are designed but also how they are promoted to this market. There is potential for real impact if consideration of these motivational profile dimensions will ultimately foster sustained participation among older sport participants.

In order to address the *Independence* dimension of the older sport participant motivational profile, industry practitioners should not only develop activities that improve overall health but also communicate clearly and repeatedly that a participant's engagement is likely to foster independence. Designing programs that enhance one's ability to perform daily tasks thereby creating a sense of autonomy is important, but equally, the potential to foster independence should be reflected in program promotion so potential participants are attracted to the program, based on the potential to achieve that result. Likewise, this communication strategy could also be effective for retention by encouraging long-time participants to reflect on the independence that may have been the result of their ongoing participation.

Many sport settings are inherently social, which is ideal considering the belongingness aspect of the older sport participant motivational profile. As outlined in Chapter 4, sport provides the ideal context to build social networking, strengthen existing relationships, and develop camaraderie. This, in turn, helps to foster a sense of belonging among older adults. Furthermore, sport can facilitate 'networks of support', which provides a sense of protection by bringing individuals with similar experiences (and needs) close to each other. Therefore, in

order to integrate the *Belongingness* motivation, industry practitioners should reinforce the 'family-like' atmosphere in activities and communication in order to leverage notions of collectivity and support. Moreover, industry practitioners can foster further engagement by offering additional activities such as group trips, dinners, meetings, among others. By leveraging collective aspects of sport and creating 'networks of support', sport managers can facilitate a sense of belongingness, which is crucial to sustain participation. These 'networks of support' can be highlighted in program promotion to potential new participants.

The *Self-esteem* motivation dimension can also be integrated into sport programs and the way that they are promoted to participants. In Chapter 4, sport as a means to challenge the negative stereotypes associated with aging (i.e., frailty, sedentariness, and dependency) was discussed. Older adults, as part of self-esteem development or maintenance, seek to counter and ultimately move past these stereotypes. Sport can also help construct new 'senior athlete' identities, along with a projection of a youthful/powerful image to others. In order to "tap into" the *Self-esteem* dimension of older participant motivation, industry practitioners may develop programs that continuously reinforce participants progress, while facilitating interactions between individuals of different generations. The purposeful recognition of skill development is likely to gradually improve the self-esteem of older sport participants. Likewise, interaction with other generations through sport may also reinforce the feeling and projections of a more youthful self which in turn, may also built self-esteem. Program promotion targeted to older sport participants should contain imagery that conveys vigour and youthfulness which will tap into this motivational dimension.

Just as for the *Independence, Belongingness*, and *Self-esteem* motivational profile dimensions, the notion of *Self-actualisation* should also be integrated into sport program design and promotion. As outlined in Chapter 4, there is likely a subset of older sport participants who may have fulfilled many needs associated with the other motivational profile dimensions through other means. Hence, these older adults seek meaning from the activities in which they participate more than anything else. Participation in sport allows for the development of one's full potential, the potential to give one's life new purpose. Given the complexity of this dimension of the motivational profile, embedding it within program design and promotion is more challenging than for the others. One way is to incorporate/project imagery that goes beyond traditional images and ideas. Sport managers may offer participants the opportunity to either help with program design or to act as advocates for prospective participants and/or

sponsors. This can help not only older adults to reflect on the impact of sport on developing their full potential but also providing a more meaningful role within the sport context.

In addition to the motivational dimensions, there are also important implications in regard to the influence of 'demotivational' factors on older adult sport participation. Exploring only the motivations of older sport participants may be not sufficient. Although the profile provides a high-level framework that is important and broadly actionable, some individuals may face barriers including budget constraints, lack of information, and the fear of embarrassment/injury that even a highly-motivated individual cannot overcome. Therefore, industry practitioners must develop strategies to not only address older adults needs but also the barriers. Effectively, this means offering more affordable activities for those with low income, establishing partnerships with related organisations in order to generate more awareness about the programs and using 'networks of support' as a means to minimise barriers that may be demotivating. Designing and executing strategies to address these demotivational factors may make sport programs' more accessible and attractive to potential participants.

There are also important implications related to the ongoing terminology issue (i.e., *sport* and *physical activity*) that has been discussed through this dissertation. The term *sport* carries some negative connotations among older adults as being too strenuous and/or not agesuited. Such perceptions may demotivate participation. Therefore, industry practitioners must consider this issue when developing and promoting programs for older participants. Ideas and imagery which may foster negativity (i.e., hyper competitive environment, overly strenuous) should be avoided. As sport is positively perceived among other age groups, industry practitioners should work to reframe sport for older adults as accessible, social and an opportunity to better oneself. This in in effect, a rebrand of how sport (and its various associations) is presented to this target market.

It is important to not overstate the practical utility of the older sport participant motivational profile that has been presented in this dissertation as there are other factors to consider in combination. The wider population of older adults consists of many subgroups based on numerous demographic and psychographic characteristics. This includes life stages, such as retirement from full-time work, grandchildren, loss of a partner, among others. Significant life events often lead to unique challenges and needs. Industry practitioners catering for older sport participants must appreciate and strategize around this subgroup heterogeneity alongside the motivational profile dimensions.

#### **Future research**

Several recommendations for future research are proposed in this next section which flow on from the present study. These recommendations reflect the primary limitation of this dissertation, which is the fact that no primary data was collected but rather the analyses and discussion entirely relies on the research of others. In this sense, the following recommendations reflect both existing gaps in the extant literature, but also the synthesis that has taken place here. These directions for future research mainly relate to the potential influence of other factors on older adults motivations. These include the opportunity to continue exploring the heterogeneous nature of this phenomenon and the necessity of focusing on distinct cultural contexts. Further research in these areas would result in context-specific priorities of the various motivational profile dimensions, which in turn would facilitate more accurate messaging to attract/retain participants in sport programs. Specific ways in which scholars and practitioners can enhance our collective knowledge on the topic are discussed next.

The basic needs underpinning the four motivational dimensions are also influenced by other factors. Retirement from full-time work is a good example of this phenomenon. As is evident in the literature, this 'life event' is normally accompanied by a desire to connect and interact with other people which, in turn, may lead to sport participation motivated by socialisation (Kelley et al., 2014; Pike, 2012; Sport England, 2006). In future research, it would be helpful to explore major life events and their specific link to older sport participant motivation. The analysis here suggests gender differences, life events, ethnicity, and cultural background as relevant factors that may influence older adults' needs and motivations (Dionigi, 2006; Jannique et al., 2017; Sport England, 2006). Further research on these factors would provide valuable insight on the motivational profile and how it may vary. This, in turn, supports sport managers in the development of segmentation strategies to attract and retain older sport participants.

The lack of coverage related to the 'Age Redefined' motivational dimension among the government/industry reports is noteworthy. This important dimension was only examined within scholarly publications, which self-esteem and negative stereotypes were the focus (Dionigi, 2002; Kelley et al., 2014; Stenner et al., 2020a). The governments/industry reports were more focused on measuring activity and related economic impact rather than this important aspect of underlying psychology (Active Ageing Canada, 2019; European Union, 2020; National Seniors Australia, 2015; Sport England, 2020). So, the call here is for government and industry to take the lead of scholars and consider this more explicitly by

measuring it and reporting on it. Ultimately, consideration of this motivational dimension may help to improve the effectiveness of related initiatives that are happening in industry.

Another issue that is worthy of attention in future research relates to the location from which most the research and reporting used in this dissertation has come Australia, Canada, New Zealand, United States and United Kingdom. This western and English language bias on research and reporting on older adults in sport and physical activity has been noted elsewhere (Gayman et al., 2017; Jenkin et al., 2017; Spiteri et al., 2019; Stenner et al., 2020a). Considering the global nature of the aging phenomenon and widespread popularity of sports, future studies must explore the sport motivations of older adults within different cultural contexts. Specifically, eastern and non-English speaking countries. This will add meaning and depth to discussions on the topic. The motivational profile developed in this study can serve as one contribution to what should be a much broader conversation.

Further studies must also provide more evidence on the contrasting perceptions involving the term 'sport' and its connotations among older adults. As discussed, in government/industry reports, it is suggested that 'sport' is perceived by older adults as strenuous or overly competitive (Government of South Australia, 2004; Sport England, 2006; Sport New Zealand, 2016). There is a need for studies to better investigate those perceptions, as well as possible alternatives. Experimental or action research could even trial among older adults the pairing of the term sport with ideas and imagery reflecting the motivational profile. Insights related to terminology may provide industry practitioners a means to dispel myths about sport and ultimately more successful market it.

#### Limitations

Given the nature of this research project, it is important to acknowledge the existence of some limitations. The first major limitation is that materials produced in languages other the English were not included. This may have excluded relevant insights and findings associated with older sport participants among different locations and cultures. Another issues that is worthy of attention relates to the location from which most of the research and reporting used in this dissertation has come: Australia, Canada, New Zealand, the United States and the United Kingdom. Such a pattern may relate to a strong western bias on the way that relationships of older adults with sports is perceived and analysed. Finally, the analysis and discussion included in this dissertation entirely relies on the research of others as no primary data was collected. In

this sense, no empirically new insights have been generated to advance our collective understanding of this phenomenon.

#### Conclusion

This dissertation aimed to conceptualise an understandable and actionable motivational profile of older sport participants. It is situated among an increasing number of studies that examine sport as a tool for health and well-being among older adults. This relates to growing concerns over the world's aging population and related economic impact. In this dissertation, both published research and governments/industry reports have been sourced and synthesised to establish an evidence-based motivational profile of older sport participants comprising four distinct dimensions: (1) *Independence*, (2) *Belongingness*, (3) *Self-esteem*, (4) *Self-actualisation*. Although not an exhaustive list of factors, these dimensions represent the most prominent paths that lead older adults to sport participation. These dimensions should be "tapped into" within program design and promotion.

This dissertation has helped to evolve the discussions of older sport participant motivation in several ways. To our knowledge, it is the first comprehensive effort to synthesise the findings related to older adult sport participant motivation across academic, government and industry publications. Second, a motivational profile for older sport participants has been conceptualised and presented alongside a series of important implications for sport managers. Third, important haps to be addressed in future research have been identified. While there is much more to study, it is hoped the ideas here will be considered by other scholars and industry practitioners alike.

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