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Leadership and Management in Elite Sport: Factors Perceived to Influence Performance

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ABSTRACT
Extant sport psychology and sport management research has examined the factors influencing Olympic performance at the athletic and coaching, and governmental and policy levels respectively. In contrast to this abundance of literature, far less is known about the factors perceived to influence performance at the leadership and managerial level. The purpose of this study, therefore, was to investigate the factors that national performance directors (NPDs) operating at this level perceive to influence their role delivery and performance. Fourteen NPDs of Olympic sports were interviewed and data analysis revealed two general dimensions suggested to influence outcomes. The two dimensions were: self-related factors (i.e., personality, health, skills, experience) and environment-related factors (i.e., development opportunities, operations, personnel). Recommendations are provided for applied practitioners to help them raise awareness of and address the identified factors to not only enhance a NPD's performance, but also, ultimately, that of Olympic athletes and sport organizations.

Key words: Olympic Sport, Organisational Behaviour, Professional Development, National Performance Directors

INTRODUCTION
The Olympic Games are a unique sporting event for athletes, explained in part by the meaning attached to performance at the Games and the impact of Olympic performance on an athlete’s career [1]. In addition to athletic importance, performance success at an Olympic Games is highly valued and aspired towards by coaches, sport organizations, and nations [1,2]. This performance emphasis can be explained by the various benefits Olympic success can create, such as increased funding and sponsorship [3] and an enhanced sense of national identity and pride [4]. Achieving peak performances at an Olympic Games is, however, a complex and multifaceted endeavor [5], that not only involves an athlete seeking performance excellence, but also requires his or her entourage (e.g., coaches, support staff,
national performance directors) to optimally perform in their own roles [6]. In view of the emphasis on and benefits of athletes and their entourage performing successfully at such major sporting events, one question that appears particularly pertinent to answer is, “What are the factors that influence Olympic performance?”

A substantial body of sport psychology research has investigated the factors perceived to influence the Olympic performance of athletes [7-9] and coaches [10,11]. Interestingly, in this body of work, the management of organizational-related issues has been consistently identified as a significant distinguishing factor in achieving Olympic success. Example organizational-related issues include: travel, team cohesion, selection, spectators, coach and athlete interactions, and media distractions [12]. Extending beyond coach and athlete perceptions, sport management researchers have investigated factors leading to Olympic success at a governmental and policy level in sport organizations [13,14]. Specifically, this research has classified the factors leading to international sporting success under the following nine ‘pillars’: financial support, integrated approach to policy development, foundation and participation, talent identification and development system, athletic and post-career support, training facilities, coaching provision and coach development, national and international competition, and scientific research. Reflecting on extant sport psychology and sport management research, Fletcher and Wagstaff [6] observed that these two disciplines have typically focused on individual- and governance-level factors influencing Olympic performance respectively, which has created a “twilight zone” between them. Factors within this zone, such as an organization’s culture and personnel, need to be better understood so that sport organizations can more effectively manage these performance influences when preparing for Olympic competition.

Following Fletcher and Wagstaff’s [6] observation, research has begun to examine organizational functioning in elite sport, by sampling personnel operating at the managerial level of sport organizations. One position at the organizational level that retains, arguably, the greatest responsibility and accountability for the overall performance of Olympic programs is that of the national performance director (NPD). A NPD is typically responsible for leading and managing the overall strategic delivery of a sport’s Olympic program and the attainment of its goals [15,16]. Since both performance leadership and management are involved in the NPD role, it is important at this stage to identify the similarities and differences between the two constructs. At a conceptual level, performance leadership and management can be differentiated in a number of ways, but primarily in terms of scope and vision; leaders emphasizing broader meaning and purpose (e.g., strategic planning, creative thinking) and managers focusing on immediate operational implementation (e.g., short-term planning, orderliness) [17-19]. Despite these conceptual differences, at an operational level individuals’ roles often entail aspects of both performance leadership and management, and as such there are considerable similarities and overlap between the two (e.g., influence, working with people, effective goal accomplishment) [20,21]. In view of these similarities, Northouse [21] encouraged researchers to “treat the role of managers and leaders similarly and do not emphasize the differences between them” (p. 11); thus, leadership and management will be discussed in the present paper using an integrative and common language [22].

Despite the important role of NPDs in leading and managing Olympic programs, to date, only a limited body of research exists pertaining to these figures. To elaborate, Fletcher and Arnold [16] interviewed NPDs and identified four overarching areas of best practice when leading and managing teams in preparation for Olympic competition: developing a vision, managing operations, leading people, and creating a culture. Subsequent research has
extended the findings on development and dissemination of an organizational vision; suggesting that this process is a central responsibility of a NPD’s job [23]. Following on from the NPDs’ perceptions of best practice research, Arnold et al. [15] provided recommendations, advice, and suggestions from NPDs for other leaders and managers. Specifically, the advice provided related to establishing an approach, understanding roles, developing contextual awareness, enhancing personal skills, and strengthening relationships. What is evident from the research with NPDs to date is that it has typically focused on exploring the roles and responsibilities of leaders and managers in elite sport. In contrast to the abundance of research identifying factors that can affect Olympic performance as perceived by athletes, coaches, and those operating at the governmental and policy level, far less is known about the factors perceived to influence a NPD’s performance at the leadership and managerial level. Defining performance for a NPD is not so much about a single performance at an Olympic Games, as it might be for an athlete or coach, but more about effectively leading and managing the Olympic program throughout an Olympiad cycle; therefore, continually performing in his or her role.

It is important to examine the factors influencing the performance of NPDs because they can play such a pivotal role in the success of both athletes and the sport organization that employs them. To illustrate their role in athlete success, Collins and Cruickshank [23] noted that a NPD’s ability to influence athletic performance, whether directly or indirectly, is arguably only comparable to that of an athlete’s personal coach. Regarding the role of the NPD in an organization’s success, Fletcher and Wagstaff [6] observed that “the way individuals are both led and managed will become an increasingly important factor in determining NSO’s National Sporting Organization’s success in Olympic competition” (p. 433). It is also worthwhile examining the factors perceived to influence the performance of a NPD because they are deemed performers in their own right [23]. Indeed, NPDs frequently compete for success in inherently competitive elite sport environments and, like athletes, draw on the support of sport psychologists [24,25]. Therefore, in view of the twilight zone that exists in extant research coverage and the role that NPDs can play in athletic and organizational success, the purpose of this study is to investigate the factors that NPDs perceive to influence the delivery of their role and, ultimately, their performance in leading and managing Olympic programs.

**METHOD**

**DESIGN**

A qualitative method was deemed most appropriate for this study because it enables researchers to explore factors that are perceived to influence a NPD’s performance by collecting rich and descriptive data. The specific data collection method adopted was semi-structured interviews. This approach was chosen because it encourages interviewers and participants to co-negotiate an in-depth and innovative understanding of complex human experiences [26].

**PARTICIPANTS**

A purposive sampling technique was employed to recruit participants with first-hand knowledge and experience of the research agenda [27]. Accordingly, the only selection criterion was that participants had to be a current NPD of an Olympic sport. The sample consisted of 14 Olympic NPDs (nine male, five female) aged between 42 and 67 years (M = 51.00, SD = 7.95). The participants had worked in elite sport for between ten and 41 years (M = 21.07, SD = 9.73) and as a NPD for between two and 15 years (M = 7.10, SD = 4.47).
The Olympic sports represented in the sample accounted for approximately £155 million of public investment (which is provided for a four-year Olympic cycle; approximately equivalent to US $250 million) and accumulated a total of 33 medals at the London 2012 Olympic Games, of which 13 were gold.

PROCEDURE
Following institutional ethical approval, a snowball sampling method was used to recruit participants. Specifically, this involved speaking to a NPD with which the third author already had contact, and using their network to contact other NPDs who could potentially participate. Those identified were all current NPDs of Olympic sports and were contacted by email. This message described the purpose of the study, detailed what the interview process would entail, outlined the ethical-related rights for participants, and invited them to participate. All NPDs who were contacted expressed an interest in participation, and were subsequently contacted to arrange a convenient interview date, time, and location.

INTERVIEW GUIDE
To help investigate the purpose of this study, a four-section interview guide\(^1\) was developed. Section 1 outlined the purpose of the study, information regarding the interview process, and a clear description of interviewees’ ethical-related rights. Specifically, participants were informed that all personally identifiable information concerning their participation would not be disclosed at any stage of the research process, that only the research team would have access to their interview data, and that they were free to withdraw from the study at any point. In Section 2, participants were offered the opportunity to clarify their understanding of the study and were subsequently invited to confirm their participation by written informed consent. Section 3 consisted of approximately 20 questions broadly exploring the factors that were perceived to influence NPD role delivery and performance (example topics included logistics, culture, leadership style, personality, relationships, and policies). These questions were informed, in part, by the extant sport psychology and sport management literature investigating factors influencing Olympic performance and research exploring NPDs’ performance leadership and management. The interview guide was used to guide the interviewer on the topics/areas to be covered and information required; however, they could decide in the interview itself how to best phrase questions on the chosen areas, or the order of addressing each to maintain the flow of the interview. Section 4 consisted of approximately three questions concerning the efficacy of the interview process (e.g., How do you think the interview went? Do you have any comments or suggestions about the interview process?) Prior to the interviews, a pilot interview was conducted with a current NPD not sampled in the main study, which provided general advice for conducting NPD interviews and feedback on the interview guide.

DATA ANALYSIS
The interviews, which ranged in duration from 34 to 112 minutes (\(M = 70.00, SD = 18.56\)), were digitally recorded in their entirety and transcribed verbatim. A thematic analysis was deemed an appropriate approach to analyze the data and identify themes relating to the factors affecting NPDs’ role delivery and performance. Specifically, thematic analysis begins in the data collection phase, with the interviewer observing issues of potential interest in the

\(^1\)Due to space restrictions, the interview guide is not reproduced in full here. For a copy of the guide, please contact the corresponding author.
interview and recording these in a reflexive diary [28]. On completion of the interviews, the transcripts were read and raw data quotes representing factors that were perceived to influence NPDs’ performances were extracted. Common themes amongst the raw data quotes were then paraphrased as lower-order themes, before being combined as higher-order themes, and pieced together into appropriate general dimensions [29]. To illustrate how often each theme was mentioned by participants, a frequency analysis was conducted [30]. Importantly, however, the formation of themes was not dependent on their frequency of occurrence, but rather each theme’s capacity to represent the knowledge co-negotiated in the interview.

RESEARCH QUALITY
Smith and Deemer [31] have suggested adopting a selection of criteria for evaluating the quality of qualitative research, such as rigor, authenticity, and originality. A selection of criteria were adopted in this study, since it is recognized that certain criteria may change over time [32,33]. In the present study, rigor was demonstrated by sampling knowledgeable NPDs from a wide range of sports, using the same interview guide with all participants, and reporting the procedures in a comprehensive method section [34]. To enhance authenticity within the study, a critical friend was used to question any interpretations made during the data analysis stage [26,35]. In addition to rigor and authenticity, the criterion of originality was also addressed in this study, via efforts to make a significant theoretical, heuristic, and practical contribution to knowledge throughout the research process [36].

RESULTS
The interview data yielded 260 raw data quotes² pertaining to factors perceived to influence the role delivery and performance of NPDs. Common themes among the raw data quotes were abstracted into 36 lower-order themes, seven higher-order themes, and two general dimensions: self-related factors (see Figure 1) and environment-related factors (see Figure 2). Self-related factors were defined as the perceived role delivery and performance influences pertaining to the NPD as an individual. Environment-related factors were defined as the perceived role delivery and performance influences pertaining to the conditions in which the NPD operated.

SELF-RELATED FACTORS PERCEIVED TO INFLUENCE NPD PERFORMANCE
The general dimension of self-related factors consisted of four higher-order themes: personality, health, skills, and experience (see Figure 1). In terms of the influence that personality could have on a NPD’s performance, the most frequently cited theme was the NPD’s diligence and personal discipline in his or her role. Other common personality themes that were perceived to influence performance were an innate desire for success and a willingness to support other individuals. In accordance with the latter theme, it was emphasized that an optimal balance should be achieved so that a NPD is willing to provide support to others; however, not so much that a strain is placed on either the NPD or on his or her job responsibilities. When dealing with the inherent stress of the leadership and managerial role, it was perceived that a NPD’s positivity, resilience, and ability to cope with pressure would impact on his or her performance. The following quote illustrates how one NPD suggested that to enhance performance it is important to not only cope with pressure and adversity, but also thrive on it:

²Due to space restrictions, only a selection of the distinct raw data quotes are presented in this paper. For a complete copy of this data, please contact the corresponding author.
I am the person who is ultimately responsible for the whole thing [Olympic performance] and accountable for the outcomes . . . . I guess you could get affected by that pressure in the performance of your roles and responsibilities, but you shouldn’t . . . . I absolutely believe that, as an individual, I am able to absorb and feed off that kind of environment and pressure . . . it actually kind of feeds my abilities to raise my game.

The NPDs also perceived that personal health could influence role delivery and performance. More specifically, several NPDs discussed the importance of engaging in regular exercise and ensuring adequate rest and recovery. Ways in which the NPDs maintained engagement in regular exercise included protecting time in the day for physical activity, purchasing home exercise equipment, and staying in hotels with gymnasiums when away at competitions. In relation to performance, the NPDs believed that regular exercise could help reduce the risk of burnout in what was considered an extremely demanding job. Alongside

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Lower-order Theme</th>
<th>Frequency</th>
<th>Higher-order Theme</th>
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</thead>
<tbody>
<tr>
<td>14</td>
<td>Diligence and personal discipline</td>
<td>49</td>
<td>Personality</td>
</tr>
<tr>
<td>11</td>
<td>An innate desire for success</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Willingness to support others</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Positivity</td>
<td>27</td>
<td>Health</td>
</tr>
<tr>
<td>7</td>
<td>Resilience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>An ability to cope with pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Exercise</td>
<td>51</td>
<td>Skills</td>
</tr>
<tr>
<td>14</td>
<td>Rest and recovery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Decision making</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Professionalism</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Prioritization and delegation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Psychological</td>
<td>37</td>
<td>Experience</td>
</tr>
<tr>
<td>10</td>
<td>Variety of experiences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Business or military</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>High performance sports agency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Athlete or coach</td>
<td></td>
<td></td>
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</tbody>
</table>

Figure 1. Self-Related Factors Perceived to Influence NPD Performance
exercise, the NPDs spoke about the importance of rest and recovery in maintaining the optimal personal health required for delivering effective performances. In addition to getting quality sleep and eating a balanced diet, adequate rest and recovery also encompassed maintaining control of time off and ensuring a sustainable work-life balance. The following quote illustrates how one NPD ensured rest and recovery by safeguarding his personal time:

The first thing that I decided when I came into this job was that I would not work on a Monday. Why? Because weekends are normally pretty full-on and so I would take Monday as a day out. It doesn’t mean that I never work, but I have the right to say I’m not working, which is slightly different. You have to have another life.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Lower-order Theme</th>
<th>Frequency</th>
<th>Higher-order Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Mentor provision</td>
<td>33</td>
<td>Development opportunities</td>
</tr>
<tr>
<td>6</td>
<td>Research participation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Sport psychology support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>NPD forum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Media management</td>
<td>44</td>
<td>Operations</td>
</tr>
<tr>
<td>11</td>
<td>Access to modern technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Size of the Olympic program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Number of disciplines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Attendance at training or competition venues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Family, friends, and partners</td>
<td>59</td>
<td>Personnel</td>
</tr>
<tr>
<td>4</td>
<td>Mentors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Psychologists</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Colleagues in elite sport partnership bodies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Agents, lawyers, and owners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Elite sport governance agencies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Administrative staff</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Coaches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Athletes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>National governing body board</td>
<td></td>
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</tbody>
</table>

Figure 2. Environment-Related Factors Perceived to Influence NPD Performance
In addition to personality and health, many NPDs described that personal skills could influence how they delivered their role and performed. One of the most frequently cited themes in this higher-order theme was communication, which involved delivering messages in a manner that was appropriate for the situation and the recipient. Decision making, and the ability to remain impartial during it, was a further personal skill perceived to influence a NPD’s performance. Closely linked to impartiality in decisions was the personal skill of professionalism. The NPDs also suggested that prioritization and delegation skills could help them to deliver their own role and perform effectively. Psychological skills, such as emotional intelligence and reflective practice, were also perceived to have a significant influence on NPD performance. For instance, the following quote provides an insight into the perceived importance of emotional intelligence in the NPD role:

Sport brings out all sorts of emotion in people, and often in you as an individual . . . you need to know what that emotion is and when it is coming, so that you can be ahead of the game . . . . having that level of emotional intelligence to influence where you are in terms of closeness and distance from your athletes and coaches is the most important skill to do this role.

In terms of experience, the NPDs discussed how the variety of experiences accumulated prior to starting the job could influence role delivery and performance. For instance, some of the NPDs discussed how previous business and military experience had enhanced their understanding of creating optimal working environments, and had taught them leadership principles which could be transferred to elite sport. The NPDs also spoke about the experience of working with the nation’s high performance sports agency, detailing how it had taught them to effectively judge when to challenge the agency on certain procedures that would influence the delivery of their Olympic programs. A critical factor to emerge in terms of experience, however, was that gained by being an elite athlete or coach prior to becoming a NPD. More specifically, such athletic or coaching experience was suggested to enable the NPDs to understand high performance sport, have the legitimacy to challenge coaches when necessary, and make more effective decisions. The following quote illustrates how previous athletic experience influenced the performance of one NPD:

I think having been an athlete for a significant period of time means that I have a good understanding of what is going on in their athletes’ minds . . . . I look at decisions we’re making and I say to myself, “If I was an athlete, what would I think about this?” . . . . and I decide not to do some things if I can say “Well actually they’re not going to make any impact on performance at all”.

ENVIRONMENT-RELATED FACTORS PERCEIVED TO INFLUENCE NPDs PERFORMANCE
The general dimension of environment-related factors consisted of three higher-order themes: development opportunities, operations, and personnel (see Figure 2). The type and amount of development opportunities available in a NPD’s surrounding environment were perceived to have an influence on performance. An example development opportunity was the provision of a mentor, which the NPDs suggested could stimulate personal development through enhanced self-reflection. It also became clear during the interviews that by providing mentoring to other staff, NPDs could identify any relevant issues and use these to enhance their own role delivery. In addition to mentoring, the NPDs suggested that participation in
research projects and sport psychology support could influence performance, since both provided opportunities for personal and professional reflection. Within the development opportunities theme, the most frequently cited lower-order theme was a NPD forum. It was perceived that a NPD forum positively impacted performance, since it allowed NPDs to share problems and learn from each other, as the following quote illustrates:

We all kind of face the same issues, just parceled up differently because we are different sports, but it really is great to be able to share. What I see is the young and inexperienced directors come in and we have practical discussions in small groups with a senior director there and you can just see people learning and realizing “These guys have got the same problem and this is the way they are looking at it”. That’s really helpful and beneficial for your own program.

In terms of the operations that could influence performance, several NPDs described their role managing both the negative distraction that the media could present, and program staffs’ and athletes’ increasing use of social media. A further operational factor that could affect NPD performance was access to modern technology. While some NPDs described that technology (e.g., digital reminders, voice recorders, emails) could assist with personal organization to enhance performance, others commented how modern technology had invaded their life and, in doing so, negatively influenced performance. A further common theme relating to operations was the size of the Olympic program, with NPDs of smaller programs detailing how their minimal funding meant that they personally had to complete time-consuming, administrative tasks which, subsequently, affected their ability to deliver their managerial and leadership role. Moreover, having to manage multiple disciplines (e.g., Olympic and Paralympic) was perceived to influence performance. NPDs suggested that attendance at training or competition venues positively influenced performance, since it enabled them to remain informed of arising issues, maintain credibility and visibility, and become acquainted with emerging talent. However, several NPDs commented that it was important to get the balance right with regards to attending venues, as the following quote from one NPD highlights:

At the training or competition venue, I learn what we’re doing well, and I learn what we’re not doing well . . . and people see me there and they know I care. I also know that if there’s an issue there and we don’t address it, it’s going to impact on performance, which will often affect me and how I am judged, so I like to be there. The reality, however, is that if I was there at the training or competition venue every day, there would be no structure, no organization, no finance, no external contacts . . . . So you’ve got to stay connected to the front line but it’s not the NPD’s role to be there all of the time.

The NPDs agreed that there were a large number of personnel that could influence their role delivery and performance. These included: family, friends, and partners; mentors; psychologists; colleagues in elite sport partnership bodies; agents, lawyers, and owners; elite sport governance agencies; administrative staff; coaches; athletes; and the national governing body board. The support of family, friends, and partners was highly regarded by many of the NPDs, who stated that these individuals not only provided them with a trusted second opinion, but also offered unwavering support. Similarly, mentors and psychologists gave
support to NPDs in their role, and presented them with a fresh perspective when rationalizing challenging situations. The quality of services provided by colleagues in elite sport partnership bodies (e.g., sport science, legal expertise, systems enlightenment) was also perceived to impact NPDs’ performances.

Some personnel were perceived to influence a NPD’s role delivery and performance in certain situations. For example, if an athlete’s relationship with an Olympic program broke down, agents, lawyers, and owners often became involved and could, therefore, influence NPD performance. The final group of personnel that were external to sport organizations and could influence NPD performance were the elite sport governance agencies (e.g., nation’s high performance sports agency, nation’s Olympic association). The majority of NPDs cited performance advantages of actively engaging with these personnel. These benefits included: promoting the sport and placing it in high contention should additional support become available, validating the NPD’s position as being a reliable individual and, consequently, being granted greater autonomy and authority to lead and manage Olympic programs with minimal external influence.

Internal to a sport organization, administrative staff, coaches, and athletes were all perceived to have an influence on NPDs’ role delivery and performances. Specifically, administrative staff could help reduce a NPD’s workload, coaches could provide a level of challenge to keep a NPD engaged at work, and a good relationship with the athletes could help the NPD co-ordinate what the Olympic program wanted to achieve. One of the most frequently cited lower-order themes within personnel was the board of the national governing body (NGB). Specifically, as the following quote from one NPD illustrates, it was perceived that a NGB board could positively impact a NPD’s performance if they allowed him or her freedom to lead and manage the Olympic program:

In the very early days, I can remember having a point where I wasn’t actually sure I was going to carry on with the job and that was about the question of my freedom to manage. I didn’t have any financial responsibility, and if you don’t have that you can’t employ staff, you can’t make decisions. No point having a strategy if you can’t actually implement it. So there was a coming together of the Chief Executive and the Chair of the NGB Board and they were really reticent about allowing me to do that . . . . I think there are probably a number of NPDs in the smaller sports, or a few newer NPDs, that don’t have the freedom to manage, and I can see how difficult it is for them to do their jobs without it.

DISCUSSION

The evolution of elite level sport has transformed performance success at an Olympic Games into a multifaceted endeavor that no longer relies solely on an athlete, but also on how effectively his or her entourage deliver their own roles. One member of the entourage team that plays an important role in elite sport success is the NPD, because he or she (along with various other factors in the sporting context) can influence the performance of both athletes and sport organizations. In view of the important role played by NPDs, and the comparatively understudied nature of this population in comparison to athletes, coaches, and sport organizations, this study provides an insight into the factors which are perceived to influence a NPD’s role delivery and performance. These factors are organized into two general dimensions: self-related factors (i.e., personality, health, skills, experience) and environment-related factors (i.e., development opportunities, operations, personnel). This
study and its findings advance previous literature by exploring the factors influencing performance within the “twilight zone” [6]. Together, the accounts provided by the NPDs illustrate the importance of an executive functioning optimally within this zone and particularly managing themselves and their resources/environment to fulfil their role and achieve desired performance goals. It is neither the self nor the environment alone, however, which shapes how a NPD performs in his or her role, rather it is the interaction between the two. This observation is somewhat synergistic with Lewin’s [37] expression for human behavior of \( B = f(P \times E) \), whereby behavior is a function of the interaction between a person and the environment.

When striving to fulfill the role and achieve desired performances, each NPD will encounter distinctive challenges based on the resources they have available to them and the environment in which they are operating. For instance, while one NPD working on a relatively low budget might be tasked with researching and booking all travel plans for athletic competitions, others with a more extensive budget might have an administrative employee in place to conduct such tasks [16]. Furthermore, while one NPD with a centralized athletic program might communicate via face-to-face methods, others who have athletes located worldwide have the distinctive challenge of utilizing alternative communication methods (e.g., email, Skype). The importance of examining the context and circumstances in which leadership and management occurs has also been emphasized in organizational leadership literature [38]. Osborn, Hunt, and Jauch [39] have suggested that theory in this area, however, could better incorporate the context, since it has typically conceptualized leaders and managers traits or behaviors [40-42] without always including the circumstances in which they are situated. The present study can enhance extant empirical and theoretical knowledge and understanding by identifying both specific NPD self-related factors that can influence their performance over and above those identified in trait and behavioral-related theories of organizational leadership [40-42] and idiosyncratic environment-related factors that can influence performance in the NPD role. Together, these findings can contribute to situational theories of leadership [43], by identifying the factors that leaders and managers might need to take into consideration to enhance performance effectiveness in a specific organizational setting and role.

Discussing first the self-related factors identified in this study, these perceived performance influences relate to the NPD as an individual and consist of four higher-order themes. The first of these is personality and the data suggest that in addition to the personality components that many athletes require for performance excellence, such as an innate desire for success [44], diligence and personal discipline [45], an ability to cope with pressure [46], positivity [47], and resilience [48], NPD’s also perceived that willingness to support others enabled them to perform effectively in the NPD role. As well as being identified as a positive behavior in relational-based leadership theories [49,50], a willingness to support others has been identified as an important characteristic in personality and social psychology [51], where it is suggested that to enhance cooperation and trust in a dyad, individuals should not follow strict reciprocity and be only as cooperative as the person they are interacting with is, but rather behave more cooperatively than the person they are interacting with did in the previous interaction. The second self-related factor perceived to influence performance is health. The findings reveal that health for NPDs involves engaging in adequate exercise and achieving optimal rest and recovery. The benefits of exercise for an individual’s health and performance are extensively researched and documented [52], and within athletic populations researchers have investigated what constitutes adequate rest and recovery in an attempt to avoid burnout and underperformance [53]. In the present study,
many of the NPDs believed that not achieving a work-life balance could influence their rest and recovery and, therefore, performance in what was considered to be an extremely demanding job. This is in accordance with research sampling service workers in a relentless occupation, which found that an optimal work-life balance improved job satisfaction and personal and organizational performance [54].

Following on from personality and health, a NPD’s skills were also perceived to influence his or her role delivery and performance. Psychologists, in an attempt to better support athletes, have to date tended to focus their research efforts on the skills that athletes require on the sports field, such as decision making [55], communication [56], and psychological skills [57]. The findings of the present study extend sport psychology research, by examining skills within the managerial context, and specifically the skills that are required by a NPD to optimally perform his or her role. Specific skills that were discussed by the NPDs include: professionalism, decision making, communication, prioritization and delegation, and psychological. It is pivotal that NPDs develop such skills because research has shown that professionalism [58], decision making [59], communication [60], prioritization and delegation [61], and psychological skills [62] can influence performance across various contexts. In addition to skills, the NPDs perceived that previous experiences could influence role delivery and performance. Interviews with NPDs in previous research has highlighted that the NPD role typically requires experience within a performance environment, though not necessarily as an athlete or a coach [15]. The findings of the present study extend this research by highlighting the various performance environments that NPDs perceive can provide them with valuable experience to enhance role delivery and performance (e.g., business, military, high performance sports agency, athletic, coaching). Interestingly, the transferability of previous experience as an athlete has been researched with coaches, where a positive significant relationship was found between time spent as an athlete in the sport now coaching and five measures of coaching success [63].

Turning to the environment-related factors perceived to influence performance, these relate to the context in which the NPD operates and consist of three higher-order themes: development opportunities, operations, and personnel. Firstly, the NPDs identified that certain development opportunities enabled them to perform more effectively in their job. These include: the provision of a mentor, research participation, sport psychology support, and a NPD forum. A universal justification provided for engaging in these opportunities was that they enable the NPDs to engage in discussion and reflection with regard to their roles. Critical reflection has been identified as an important process in elite sport, with particular reference to the sport psychologist [64] and coaching roles [65]. In these roles, critical reflection has been found to improve self-awareness and enhance learning and knowledge acquisition [64,65]. The findings of the present study extend sport psychology research by eliciting the importance of reflection in enhancing a NPD’s role delivery and performance, alongside detailing development opportunities in which such reflection might occur. The second environment-related factor is operations. The findings highlight a variety of operational factors that NPDs perceive to influence role delivery and performance. The size of the Olympic program and the number of disciplines involved within it was suggested to influence the amount of time NPDs had to deliver and perform effectively within their own leadership and management role. This is in accordance with business literature, which highlights that the dynamics of an environment, an executive’s management, and the firm itself can all be affected by the growth of an organization [66]. Further operational themes that were perceived to influence NPDs’ job performance were the media and modern technology. Specifically, NPDs spoke about the need to manage and balance the advantages
and disadvantages of media and engagement in social media by those in the program. Economics research on the usage of social media in organizations has supported the importance of managing and balancing the costs (e.g., privacy, enhanced expectations) and benefits (e.g., improved efficiency of business processes, knowledge sharing) of social media usage [67]. A further operation that required balance in the NPD role was attendance at the training or competition environment.

In addition to development opportunities and operations, the NPDs spoke about the influence of personnel on their role delivery and performances. While the majority of sport psychology literature has focused on the potential performance impact of an athlete’s relationships and interactions with other athletes [68], coaches [69], and parents [70], the present research highlights the perceived influences of a variety of personnel on the role delivery and performance of a NPD. These personnel include: families, friends, partners, mentors, psychologists, colleagues in elite sport partnership bodies, agents, lawyers, owners, elite sport governance agencies, administrative staff, coaches, athletes, and national governing body boards. The influence of personnel on a NPD is somewhat in accordance with tenets of social identity theory, which suggest that social processes can cause people (e.g., NPDs) to adapt their perceptions and behaviors based on the opportunities and restrictions inherent in the interpersonal situation [71,72]. If leaders effectively manage and interact with personnel both internal and external to an organization, they can enhance their own role delivery and performance [73], team learning and success [74], employee job satisfaction [75], and employee well-being [76]. Specifically, by developing leader-member exchange relationships (e.g., affect, loyalty, respect) and heightening organizational identification, leaders and managers can create various desirable individual and organizational-level outcomes [71,72,77].

From a practical perspective, the findings of this study illustrate a number of self- and environment-related factors that can influence a NPD’s role delivery and performance. Sport psychology practitioners, who are increasingly required to provide assistance to NPDs [24,25], should raise their own personal awareness of these factors and also the awareness of NPDs and sport organizations (e.g., national governing bodies, nation’s Olympic association, nation’s high performance sports agency). In addition, applied practitioners should identify ways in which the factors can be addressed so that performance can be enhanced. To raise awareness and address these factors, applied practitioners are encouraged to develop, implement, and evaluate a NPD and sport organization development program which aims to enhance both leadership (e.g., interpersonal factors) and leader (e.g., intrapersonal factors) development [78]. This program could incorporate modules and services based around the elements of best practice performance leadership and management in elite sport [16], the recommendations NPDs have provided for other leaders, managers, and sport organizations [15], the optimal ways in which leaders and managers can prepare athletes and teams for specific events [22], and self- and environment-related factors that were perceived as influencing NPD role delivery and performance in the present study. Each NPD could select different modules and/or services based on his or her development needs; therefore, benefiting from a bespoke and individualized psychological support program.

To address the self-related factors identified in the present study, psychological support could include sessions on coping with pressure and increasing resilience [79], developing an optimal work-life balance [80], enhancing leadership, psychological, and communication skills [81-83], improving decision making and delegation [84], and effectively drawing from previous experiences [85]. To address environment-related factors, psychological support sessions could involve: working with a mentor [86], creating discussion groups and forums
gaining a competitive advantage by working with the media [88], utilizing modern technology for enhanced business intelligence [89], and relationship and team-building [90]. To provide such support, applied sport psychologists will likely have to develop their own skills and competencies [15,16,91] and draw lessons from professionals who have provided similar support to other populations (e.g., executive coaches, business psychologists). In addition, consultants should utilize innovative advances (e.g., e-leadership and cognitive neuroscience) from other domains to inform and develop their work [92,93]. While these practical recommendations are suggested primarily for supporting individuals operating in a NPD role, it is likely that, in view of the ubiquity of distributed leadership in organizations [94], that many will also be applicable to other leadership and managerial tasked individuals. The nature of distributed leadership amongst NPDs and other individuals in sports organizations should also be investigated in future research.

This study has a number of methodological strengths and limitations that should be acknowledged. A main strength of this study was the nature of the sample, with NPDs being some of the most powerful people in elite sport and, in comparison to athletes and coaches, an under-represented population in sport psychology research. A further strength of this study is the data collection method used. Indeed, by adopting interviews, the NPDs could talk freely and express their beliefs in an anonymous way. Moreover, the interview provided NPDs with a unique opportunity to reflect on the factors influencing their performance and also be listened to, which can enhance a participant’s feelings of empowerment [95]. That said, it is important to consider limitations of interviews. For example, in comparison to methods such as focus groups, interviews do not provide researchers with the opportunity to observe interactions amongst participants, which can provide an extra layer to data [96]. Furthermore, such interactions amongst participants can also serve a social support function [97], which may be particularly beneficial for the typically isolated nature of the NPD role [15]. In addition, the method of interviews might enable participants to engage in impression management and present their espoused theory (i.e. their description of how they behave) rather than their theory-in-use (i.e. how they actually behave); thus, future research should adopt observation methods to unearth the theories-in-use and actual leadership and management behaviors [98,99]. A further limitation of this study is that due to its design and methods, causative conclusions cannot be inferred with regards to the relationship between the identified factors and their influence on performance [100,101]. Although the design and methods used were appropriate for the present study to explore NPDs’ perceptions of factors that influence performance, future research should look to adopt a repeated measures design and alternative data collection and analysis techniques [100,102-105] to more rigorously investigate the relationship between self- and environment-related factors and performance. It is likely that other factors influencing NPDs’ performance will also need to be investigated in future research. For instance, as well as considering the impact that leaders’ and managers’ attitudes and behaviors can have on performance, scholars should also consider the performance impact of followers’ and subordinates’ attitudes and behaviors, and the ways in which a NPD and the context might influence these relationships [22]. Moreover, future research should examine the exact influence of NPDs and their leadership/management on various levels of performance, such as athletic, leadership/managerial, and organizational.

In addition to the aforementioned suggestions, future researchers should also investigate how the factors perceived to influence a NPD’s role delivery and performance evolve over time. This temporal examination is particularly important because achieving peak performance is suggested to be a continually evolving process, rather than a single pinnacle event [106]. For example, as noted in the introduction to this paper, NPDs are required to
perform continually over an Olympiad cycle; therefore, it would be informative to examine how the factors perceived to influence peak performance differ across this period and as the NPD and his or her organization transition through different events. Business and organizational behavior literature has highlighted the importance of examining leadership and management performance at different time points and events, such as during organizational crisis [107] and organizational change [108]. To provide more rigorous and robust data on changes to the identified performance-influencing factors over time, future researchers should look to develop a valid and reliable measure. In this quest, scholars should draw lessons from disciplines that have already developed measures of factors influencing performance, such as those in construction [109], business [110], education [111], and sport contexts [112].

CONCLUSION
This study has investigated the factors that NPDs perceive to influence their role delivery and performance. The findings reveal that self-related factors (i.e., personality, health, skills, experience) and environment-related factors (i.e., development opportunities, operations, personnel) are perceived to influence these outcomes. As a result, sport psychology practitioners need to raise their own, NPDs’, and sport organizations’ awareness of performance-influencing factors and develop methods to address them. Since NPDs can play such a pivotal role in athletic and organizational success at an Olympic Games, research-informed interventions will not only help to enhance a NPD’s performance in elite sport, but will also, in turn, benefit the performance of Olympic athletes and the sport organizations to which they affiliate.

REFERENCES


