

Research Space

Journal article

Structure and organization of sport for people with intellectual disabilities across Europe

Marin-Urquiza, A., Morgulec-Adamowicz, N., Burns, J. and Van Biesen, D.

This is the accepted version of the article published as: Marin-Urquiza, A., Burns, J., Morgulec-Adamowicz, N., & Van Biesen, D. (2023). Structure and Organization of Sport for People With Intellectual Disabilities Across Europe. Adapted Physical Activity Quarterly (published online ahead of print 2023). Retrieved Sep 4, 2023, from https://doi.org/10.1123/apaq.2022-0212

St	ructure and Organisation of Sport for People with Intellectual Disabilities across
	Europe

4 Abstract

Opportunities to participate and compete in sports for athletes with intellectual disabilities have increased, however, this group still encounters limitations in accessing a comprehensive range of sports. This study aimed to reveal the current knowledge on how sport for people with intellectual disabilities is organised and the relationships between the major sport organisations for people with intellectual disabilities across 10 European countries. Twentynine national sport organisations for people with intellectual disabilities participated in this study. Data was collected using semi-structured interviews with representatives from the key organisations and analysed thematically. Results described two areas of focus: (a) connection and networking between these sport organisations; and (b) organisational landscape of each nation (i.e., intellectual-disability, multi-disability, or mainstream). These results are of value to those involved in sport for people with intellectual disabilities to better understand the situation in their home nation and across Europe, and to illuminate examples of good practice.

Keywords: intellectual disability; intellectual impairment; disability; sports; social inclusion

Structure and Organisation of Sport for People with Intellectual Disabilities across Europe

The American Association on Intellectual and Developmental Disabilities (Schalock et al., 2021) defines intellectual disability (ID) as 'a condition characterized by significant limitations in both intellectual functioning and adaptive behaviour that originates before the age of 22'. The prevalence of people with ID varies around the world, with a global prevalence estimated at 1.74% (range 0.33% -2.42%), the higher prevalence rates occurring in

the low-middle socio-demographic index (SDI disadvantaged) regions and the lowest in the higher SDI (advantaged) regions (Nair et al., 2022).

The beneficial and protective effects of regular physical activity (PA) for physical and mental health are well-known (Diana, 2012; WHO, 2020). However, people with ID are considerably less physically active compared to people without disabilities (Robertson et al., 2018). Dairo and colleagues (2016) conducted a systematic review of the PA literature and found that only 9% of adults with ID met the minimum levels of PA recommended by the World Health Organisation (WHO, 2018). Hence, the negative consequences that physical inactivity has on health (i.e., physical, psychological and social well-being) are likely to be more significant for this population.

The European Commission recognises sport and PA as drivers of active social inclusion and has promoted initiatives to grow sport for all in Europe (European Commission, n.d.). However, the societal contribution of sport and PA does not always attain its potential for certain marginalised groups such as people with disabilities. Specifically, whilst sport for people with ID (ID-sport) has improved throughout the last years, people with ID are still encountering barriers for full and equal participation in the sport of their choice in Europe and worldwide (IDEAL project Erasmus+, 2020; Jacinto et al., 2021). The organisational context supporting ID-sport play a significant role in this progression.

Historical context of sport for individuals with intellectual disabilities

Organisations that promote and provide participation opportunities in ID-sport have been evolving and operating since the end of the 1960s. Their general aim is to enhance the opportunities of people with ID to have physically active lifestyles, participate, train, and compete in sports at all levels (Lantz & Marcellini, 2018). The research evidence demonstrating that the delivery of sport and PA through such organisations contributes to improving the lives of people with ID is now substantial (Burns et al., 2022). Health gains have been demonstrated on the physical, psychological, and social well-being of athletes with

- 53 ID, and also on the athletes' families and on societal attitudes (e.g., McConkey & Menke,
- 54 2022; St John et al., 2020).
- The start of developing organisations to promote ID-sport can be traced back to 1946
- when the Kennedy family established the Joseph P. Kennedy Jr. foundation to help people
- 57 with ID, including sports-based interventions. This organisation was then established by
- 58 Eunice Shriver as the Special Olympics (SO) in 1968 (Special Olympics, 2020). Nowadays,
- 59 SO International is involved in ID-sport worldwide (e.g., 251 national and state programmes,
- 60 3.7 million participants, 1,050 sports partners) (Special Olympics, 2021). The SO movement
- 61 promotes the right to participation for all and encourages participation at all levels of
- 62 performance (i.e., from recreational in local club to international high performance
- competition level at events such as the SO world games).
- In order to promote the participation of athletes with ID in high-performance sports,
- 65 the International Association for Sport for Persons with Mental Handicap (INAS-FMH) was
- 66 founded in 1986 and joined the International Coordinating Committee of World Sports
- 67 Organisations for the Disabled (ICC) (i.e., the current International Paralympic Committee
- [IPC]). As a result, athletes with ID were included for the first time in the Paralympic
- 69 Movement (Tweedy & Howe, 2011; Virtus, 2019). The former INAS-FMH, later renamed
- 70 INAS-FID, then INAS, and currently known as Virtus (World Intellectual Impairment Sport),
- 71 has progressively grown to increase the sport offer, including competition in 12 sports, under
- 72 the international sport federation rules, and now has a global presence (Virtus, 2019).
- Although athletes with ID were included in the Paralympic Movement in 1986, they
- were not able to compete at the Paralympic Games (PG) until Atlanta 1996 (Virtus, 2019).
- Unfortunately, due to a scandal when a nation purposely fielded basketball players who did
- not have ID, the whole competition group of athletes with ID was excluded after the Sydney
- 77 2000 PG, until a more reliable system of eligibility and classification could be put in place.
- 78 This requirement was met in 2009 and athletes with ID were allowed to compete again at the

PG held in London 2012, although fewer athletes competed (i.e., 118) compared to Sydney 2000 (i.e., 244) (Lantz & Marcellini, 2018). Furthermore, only three sports were re-included (athletics, table tennis, and swimming) due to the changing IPC requirements of a fully evidence-based classification systems (Van Biesen et al., 2021).

In 2012, the Sport Union for athletes with Down Syndrome (SUDS) was founded as an international multi-sport federation specifically for athletes with Down Syndrome (DS) and in 2016 SUDS organised the first Trisome Games to increase the competitive opportunities for athletes with DS (Lantz & Marcellini, 2018). In contrast to the other organisations described above SUDS caters for a specific sub-group of people with ID, those with DS, who because of the genetic phenotype commonly have additional characteristics which impact on their sports performance.

Whilst these ID-sport specific organisations have played a major role in developing sport and PA opportunities for people with ID, more mainstream sport organisations or federations (i.e., traditionally involved in sport for people without a disability) have started to play an increasingly important role in disability sport inclusion (including ID-sport), prompted by the implementation of the United Nations (UN) Convention on the Rights of Persons with Disabilities (CRPD) in 2008 (UN General Assembly, 2007).

In summary, SO International, Virtus, IPC, and SUDS are currently the major international sport organisations involved in ID-sport worldwide and facilitate wider access and a variety of sport opportunities including all levels of participation from recreational to high-performance competition (Lantz & Marcellini, 2018). In each European country in which these organisations are present, there are national sport organisations or federations that represent the international governing bodies. Moreover, these main international ID-sport organisations stage large-scale global competitive events for athletes with ID, such as the SO World Games (that held 24 sports in Abu Dhabi 2019), the Virtus Global Games (that held 10 sports in Brisbane 2019), the PG (that held three ID-sports in Tokyo 2020), and the Trisome

Games (that held seven sports in Florence 2016). Each of the international organisations have both overlapping and differing roles and goals in ID-sport, leading to some clear differences but also some confusion. For example, SO is commonly considered to play a larger role in terms of participation and recreational competition, whereas the IPC and Virtus are considered pathways of high-performance sports and competitions (Burns, 2018). However, the SO supports high level competition where routes through the ICP or Virtus are not supported due to non-inclusion of that sport. Nevertheless, an important distinction can be made in terms of the rules under which the sport is performed which is under International Federation rules for Virtus and the IPC, but not usually so for SO events, where more adaptation occurs.

Whilst such organisations exist people with ID and their families still report difficulties in accessing sport and PA opportunities and research shows low levels of activity (Burns et al., 2022; Yu et al., 2022). In addition, that only three sports have a full Paralympic pathway available limits the support for the development of a comprehensive offer of sports disciplines as national resources tend to be orientated towards the Paralympic sports. Further information on the roles and different sport pathways offered by SO, Virtus, and the IPC can be found in Burns (2018) and in Lantz and Marcellini (2018).

It is recognised that connection and coordination between the different national sport bodies could benefit provision and promote participation in sport and PA (Cousens et al., 2012). Consequently, to increase the quality and quantity of sport opportunities for people with ID, it is important to know more about how these different ID-sport organisations are represented at national level and how they relate to each other.

The purpose of this study was to examine how ID-sport is organised and structured across Europe and to compare similarities and differences across 10 European nations in their ID-sport organisations. Additionally, the study focus was to identify strengths, limitations and

examples of good practice, that can serve to improve the structures, offer and quality of IDsport provision in other nations worldwide.

132 Method

Study design

The present study was developed as part of the European Erasmus+ funded IDEAL project "Intellectual Disability and Equal opportunities for Active and Long-term participation in sport". A qualitative approach was taken using semi-structured individual interviews, employing a pre-determined questionnaire focussed around the aims of the study. The research received ethical scrutiny and approval through a University ethical panel (Canterbury Christ Church University, ref. 18-SAS-08C).

The type of organisations which represent ID-sport in each country have developed organically, influenced by the nation's unique geographical, economical, and socio-cultural characteristics. Such contexts are open to change and interpretation, hence the ontological framework adopted was interpretivism, as the research endeavoured to understand perceptions of the organisational structure in its context, and compare and contrast with perceptions of other national structures. To meet this aim a constructionist approach to epistemology was appropriate, using a questionnaire and semi-structured interviews to elicit understandings and beliefs about the development and function of organisations relevant to the development of ID-sport (Al-Ababneh, 2020). The purpose of prior circulation of the questionnaire was to enable the participant to be thoroughly prepared for the interview, by for example discussing the questions with other staff members, retrieving information in advance.

Although it is possible to obtain detailed information by means of a questionnaire, the purpose of using a semi-structured interview, following a prescribed questionnaire was to explore the provided answers in depth, especially when clarification was needed, but also to retain comprehensiveness and relevance. Such approach exists in the literature, for example in Chilton and Collett (2008). Moreover, the interviews facilitated a richer understanding of the

responsibilities of the ID-sport organisation, the structure of ID-sport in each country and how this may relate to the existing relevant international organisations. A thematic approach to analysis was then adopted which fitted with the ontological and epistemological assumptions, as described by Braun et al.(2016).

Participants

The ID-sport organisations targeted by the present study were (a) the national representation of the IPC (i.e., the National Paralympic Committee [NPC]), (b) the national representation of Virtus, and (c) the national SO. In some countries, two or more of these organisations are merged into one organisation. When applicable, additional relevant organisations responsible for the management of ID-sport in that country were also included. Although SUDS is also involved in ID-sport, it was excluded since it represents only people with DS and does not include people with other types of ID.

To recruit the sample, researchers contacted the major ID-sport organisations by email and/or personal contacts from the targeted countries. These emails provided a detailed description of the research purpose and informed consent for study participation and data protection. Once identified that an ID-sport organisation was interested in engaging in the study, they were asked to identify an individual (i.e., a participant) who could represent and provide information on behalf of the ID-sport organisation. As a result, the sample consisted of 29 individuals (15 males and 14 females) from 29 different targeted ID-sport organisations. It was made clear to the interviewees that they represented the organisation, not their personal views, and could consult wider within the organisation on the questions contained in the questionnaire, supplied in advance of the interview.

Measures

A comprehensive questionnaire, including open- and close-ended questions, was developed for the purpose of this study in collaboration with expert researchers to retrieve relevant information from the ID-sport organisations. The expert team consisted of highly

recognised academics and practitioners with more than 10 years of expertise of researching, organising, coaching and collaborating in the field of ID, PA, health, and sport (including IDEAL project consortium representatives).

In developing the questionnaire, the nominal group technique (NGT) was employed to attain expert consensus on the content (Harvey & Holmes, 2012). This technique was employed in a series of structured on-line and face-to-face meetings, developing iterations of the questionnaire. The questionnaire aimed to provide a comprehensive overview of the role, functioning and context of the organisation.

The areas covered by the agreed questionnaire were: type, size and nature of the organisation (e.g., public or private, for profit or non-profit, etc.); the organisational role (e.g., mission and goals); the offer (e.g., amount and type of sports or PA); the number of athletes with ID registered; the organisation's action level (i.e., international, national and/or regional level); and information about the organisational participant. The final section focussed on the connections between the ID-sport organisations. Organisations were asked about the presence, type, strength and nature of the connection with other organisations in their countries. A connection was defined as a formal bilateral relationship and/or partnership on a regular basis between these organisations. These questions are provided in the Supplemental Material.

The questionnaire was revised and agreed by the expert panel and then translated into five languages (i.e., Dutch, French, Italian, Polish and Spanish), from the original English version. Each translation was reviewed by a second native speaker for comprehension.

Translations into Icelandic, Swedish, and German were not needed, since the participants in those countries evidenced a proficient level of English.

Data collection

The participants were the respondents appointed by the ID-sport organisation and they gave informed consent on behalf of the organisation to voluntarily participate in the study.

The questionnaire was then sent prior to the interview to prepare the necessary information, consult and pre-fill some questions.

Interviews were carried out by phone and/or online calls. There was no time limit for completing the interview. The total time ranged between 60 and 90 minutes (M = 73.89 minutes). During the interview, the interviewee and the interviewer both had access to the questionnaire which may have some pre-filled content supplied by the interviewee. It was decided not to record the interviews, because all the items and the pre-filled answers were read and clarified when necessary (for instance, when the answers were ambiguous or vague); and missing data were typed verbatim into the questionnaire by the interviewer. The interviewer employed clarifying, reflecting and summarising strategies during the semi-structured interviews in order to facilitate the discussion and to retrieve more detailed information if necessary. Interviewees were able to leave any question blank, when they did not want to answer a certain question or had a lack of information to answer appropriately.

After the interview, the completed questionnaire was sent to the participants at the ID-sport organisation to verify the retrieved responses and allow checking within the organisation if required, prior to data analysis. When necessary, follow-up phone calls or emails were used if further clarification or verification of information was needed. Data collection took place from September 2018 to June 2019.

Data Analysis

Two researchers carried out a systematic approach to independently extract the data from the questionnaires. All data retrieved prior and during the interview (typed verbatim) was collected in the questionnaire. When necessary, data were translated into English to facilitate data analysis. Each researcher analysed thematically and interpreted the data initially independently following Creswell's steps (Creswell, 2009, pp. 171 – 176). Firstly, the retrieved information from the questionnaires was read and re-read to become familiar with the content and to be able reflect on it. Then, to reduce the amount of data and reorganise it

into manageable and meaningful text segments, data were coded by segmenting the information into categories and then labelling those categories with a term. As a result, the coding process generated different categories and subcategories. The two researchers then met to discuss, refine, operationally define and finalise the categories and subcategories of the study. Finally, reflection was carried out to identify common patterns and differences in data and interpret the meanings in relation to each nation and across nations.

In keeping with the constructionist approach a number of processes were adopted to maximise the rigor and trustworthiness of the data. Criticism has been directed at member checking as a form of 'truth validation' (Smith & McGannon, 2018), but in this study participants were given the opportunity to reflect on their responses, as advised by Braun and Clarke (2013). This process was enhanced by providing the opportunity to see the questionnaire in advance, discuss with colleagues, and also reflect on their answers post interview. The combination of a pre-prepared questionnaire with a semi-structured interview also facilitated a greater depth of enquiry and exploration of similarities and differences between respondents. The also allowed participants to acknowledge and explore contradictions which may exist, both in their understanding and that represented in their organisation (Schinke et al., 2013).

The relevance of the research was also a criteria perceived to be important in this study to ensure that the data most pertinent to the stakeholder was captured. This was facilitated by using and expert groups as 'critical friends' to develop and evaluate the questionnaire and through providing an opportunity to the participants to add any additional comments at the end of the interview (Levitt et al., 2017). Finally, to promote interpretive validity as described by Maxwell (2012) a number of steps were taken. The analysis of the data into themes was carried out independently, and then reviewed for consistency, accuracy and negative cases by the two researchers. This process was recorded so there was a clear audit trail from data to themes which was then reviewed and questioned by the 'critical

friends', by reviewing the coding process and its analysis to further elucidate meaning and consensus about category and subcategory interpretation. Post analysis the main findings of the study were shared with the participants to test credibility with the target group and further facilitate reflection on the positioning of their organisation within the wider context.

Comments were invited, although there was not additional material to be incorporated into the interpretation of the results.

265 Results

Twenty-nine organisations participated in the study, each selecting a participant to provide the data through an interview. Further details about these organisations and participants are shown in Tables 1 and 2.

269 [Table 1]

270 [Table 2]

Two main categories were found from the inductive analysis of the data and are described in the following sections: (a) network between the national ID-sport organisations; and (b) organisational ID-sport landscape. Examples of specific answers are shown to illustrate the study findings and summarised in Table 3. To preserve anonymity the names of each ID-sport organisation have been given an alternative name (ORG#) which does not match with those in Table 3.

A. Network between the national ID-sport organisations

The different types of connections between the participants and other national sport organisations involved in ID-sport (i.e., "network"), were categorised into three subcategories:

- 1. "Member connections", when one organisation was a member of another organisation.
- 282 2. "Main official connections", when the organisations reported a formal bilateral
 283 partnership collaboration. However, to be considered as an official connection, the
 284 collaboration needed to happen on a regular basis (consistently throughout the year). This

type of connection was found in all the assessed countries, for example when
organisations were working and supporting each other to provide a wider offer and better
opportunities for people with ID (and in some cases also for people with other types of
disabilities) to practise sports or to compete.
OPC Drive anable the activity and sport provision for all disability groups, including

ORG.P: we enable the activity and sport provision for all disability groups, including people with ID, across [country], [ORG.P] works closely together with the [other national ID-sport and disability-sport organisations], which are the real competence for sport delivery for people with disabilities in [country].

These connections were also found when the organisations were actively working together towards ID-sport inclusion (into disability or mainstream sport):

ORG.C: [ORG.C] has 15 own [para-]sports at this moment, which might be less in the future, because [ORG.C] is in the process to transfer all the para-sports to their specific mainstream federations, for the federations to be in charge of delivering their sport (...) [ORG.C] want[s] to do it for all the sports and once achieved it, [ORG.C] will focus on the pure management, development and the education part.

A solid network was reported as a strength, although some ID-sport organisations reported problems in these networks, for example in collaborating with other partners, who may not hold the same status or mission:

ORG.W: good communication with [other national disability sport organisation], although sometimes [ORG.W] find some discrepancies with them due to the different sport pathways and missions that are different; that is, different sport aims and different power.

3. "Informal connections or sporadic collaborations", when organisations reported a small or an informal connection between organisations due to occasional annual events, such as a shared competition, or when both organisations collaborated on a certain project or mission but not on a regular basis. ID-sport organisations from five assessed countries reported this type of connection with other national organisations involved in ID-sport.

For example:

ORG. E: [referring to other national disability sport organisation] we just collaborate together in certain national championships per year.

One of these organisations, who organised a camp for people with disabilities (including ID) together with the national organisation that coordinates (mainstream) sport, reported the reason for not having any type of connection with another national ID-sport organisation:

ORG.L: [other national ID-sport organisation] and [ORG.L] attend to the same core courses to become a trainer. But [they] don't work together and don't have a collaborative relationship (...) [they have] different trajectories since their objectives and actions are different.

323 [Table 3]

In all the 10 included countries, a formal connection (i.e., a formal bilateral connection as members and/or partnership collaboration) at national level was found between either two or all three of these major national ID-sport organisations (i.e., NPC, the national representation of Virtus and the national SO). Table 3 provides further information about the reported types of connections with the diverse ID-sport organisations on each country. Figure 1 illustrates the different found collaborative scenarios across the 10 assessed European countries.

Results showed that in all the countries the NPC was collaborating with the national sport federation that was linked to Virtus. In addition, in six countries (i.e., Germany, Iceland, Italy, the Netherlands, Spain, and Sweden) the NPC was also connected with the national SO body. However, the national representation of Virtus and SO were usually not connected; this connection mostly happened when the three major ID-sport organisations were working under the same roof as a unique sport organisation. As a result, three different situations from the

fullest to the least connective networks can be found: (1) A three-way connection between all the three major ID-sport organisations was found in Germany, Iceland, and Sweden.

However, specific different situations were found among these countries. For instance, in Iceland and in Sweden the three major ID-sport organisations were merged in a unique sport organisation; while in Germany one organisation represented the NPC and Virtus, with SO being a separate organisation. (2) A two-way connection between the NPC and Virtus, and between the NPC and SO was found in Italy, the Netherlands, and Spain. (3) A one-way connection between the NPC and Virtus was found in Belgium, France, and Poland.

Moreover, a special case was found in Belgium where the same organisation represented both the NPC and the national representation of Virtus.

Since Great Britain is formed by three different nations (i.e., England, Scotland, and Wales) a special connective network was found there. In Great Britain (as a whole) the NPC and Virtus were connected but they were not directly connected to SO (i.e., one-way connection situation); however, the disability sport federation of each nation (connected to Virtus) was connected with SO Great Britain.

352 [Figure 1]

Additionally, mainstream sport federations from these 10 countries were also playing a role in ID-sport, as they have started to integrate some ID-sport disciplines into mainstream sport federations. Although, most of the major ID-sport organisations included mainstream sport federations (or some of them) in their connective networks, the process of integration into mainstream sport was slower in some countries compared to others, in terms of the amount of sport disciplines that were governed by the mainstream federations. For instance, France, Germany, Poland, and Spain, presented an initial phase of an integration process, where a small number of sport disciplines and/or certain specific tasks in relation to ID-sport were fully integrated into the mainstream sport, leaving the ID-specific or the multi-disability sport organisations to manage the rest of the sport disciplines. In contrast, in Belgium, Great

Britain, Iceland, Italy, and Sweden, several ID-sport disciplines were fully integrated into the mainstream sport federations, with the ID-specific or multi-disability sport organisations managing the remaining non-included sport disciplines. The Netherlands was the only participating country that presented an almost full integration of disability sport (i.e., sport practised by people with any type of disability), and consequently of ID-sport is embedded in mainstream sport in this nation.

Furthermore, most of the ID-sport organisations (n = 26) included schools among their networks. These ID-organisations provided different activities at schools, such as: sports or PA for people with ID (e.g., SO clubs being located in the schools), inclusive sports or PA for people with and without disabilities (e.g., unified sports), disability inclusion courses, or activities to increase visibility and awareness. For example:

ORG.O: Most of them are regular schools with an inclusive setting, there are only a few special schools. [ORG.O] has a network of schools in [country] and try them to engage in sports and become more active for health. Arrangement of sport-specific days, programs of disability awareness inclusion training.

Fifteen of these ID-sport organisations reported that they were providing training, education courses and/or seminars for physical education teachers, sport assistants and volunteers in initiatives to support inclusive sport or PA sessions for children with and without disabilities.

B. Organisational ID-sport landscape

From the category "landscape", three subcategories were identified representing the type of ID-sport or activity provider in each country: "ID-specific", "multi-disability-oriented" and "mainstream-oriented" (Figure 2).

 ID-specific organisations, such as SO which was present in all the assessed countries, and ID-specific sport federations present in some countries. This ID-oriented landscape was found in France, Italy, Poland, and Spain. In these countries, in addition to the national SO

there was also a sport federation exclusive for people with ID that offers sport opportunities for all levels and was the main driver of high-performance ID-sport participation.

ORG.X: the [ORG.X] is the sport federation to which [the NPC] entrusted the management, organisation and development of sports for athletes with intellectual and relational disabilities.

2. Multi-disability-oriented organisations, such as the NPC which was present in nine assessed countries (the Netherlands is the only country where the NPC and the National Olympic Committee are unified), and national disability-sport federations, in the countries where ID-sport has been integrated into disability sport. This multi-disability-oriented landscape was found in Belgium, Great Britain (when considering the two nations where there is a stronger and more organised structure of ID-sport, i.e., Scotland and Wales), Iceland, and Sweden. In these countries, although there is a national SO, ID-sport was mainly embedded in disability-sport federations which were responsible for its management and offer for all levels.

ORG.B: [there is] one office for all sports for all disability groups in [country].

However, the situation differed slightly across nations; for example, in Iceland and Sweden, all ID-sport drivers were under the same national disability-sport umbrella organisation, while in Belgium and Great Britain there were several similar organisations in a decentralised landscape. Moreover, in Great Britain, it was found that Scotland and Wales developed a more disability—orientated structure (with disability–sport federations as main drivers) than England, where ID-specific organisations and some mainstream sport federations were involved in ID-sport.

3. Mainstream-oriented organisations, which traditionally were sport federations for athletes without a disability and are now integrating disability-sport, and consequently ID-sport.
This mainstream landscape was found in the Netherlands, where disability sport

fully accomplished since 2000, with only one organised-ID-sport (bocce) and one PA programme (the SO Motor Activity Training Program) remaining not integrated. This landscape seemed to result from a policy decision which was then quickly operationalised. ORG.AC: [ORG.AC] is the umbrella sport organisation for all mainstream sport (...) in 2000 the government decided to integrate all disability sport in the mainstream sport

(including ID-sport) was embedded in mainstream sport. This situation has been almost

in 2000 the government decided to integrate all disability sport in the mainstream sport by law without considering the mainstream sports federations' opinion. So, people from the federations needed to handle this by themselves, finding their own education on disability sport to include it.

Only Germany presented a non-specific landscape since the three main types of organisations (mainstream, disability, and ID-oriented) coexisted and worked together in partnership. However, when considering the main drivers of the ID-sport offer and provision, the landscape could be located in-between ID-oriented and disability-oriented.

428 [Figure 2]

429 Discussion

Every European country in has its own diverse and organically developed characteristics that make it complex to define a specific and comprehensive European model of sport governance across all the different existing sport disciplines (European Commission, 2011). Therefore, the aim of the present study was to provide insight regarding the structure and organisation of ID-sport across Europe, and to compare similarities and differences between the different assessed countries. Ten European nations from different historical beginnings were selected to have a wide view of ID-sport across Europe.

Results showed that the major international sport organisations involved in ID-sport were represented at national level in all the assessed countries. However, the way they were represented varied among the countries, resulting in different structural scenarios. Moreover, results showed different network systems between these main national ID-sport organisations.

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

Although each country had its unique system, similarities were found among some groups of countries in terms of networking, organisational landscape, and integration of ID-sport into disability sport and mainstream sport.

It has been recognised that sport provision can be negatively affected by the lack of connection and coordination between the associated sport bodies (Cousens et al., 2012; Robson, 2001). On the contrary, levels of PA and sport participation rates can increase by establishing collaborations or connections and strengthening partnerships between those bodies (Baker et al., 2017). For example, such a strategy has been implemented by the Canadian Sport System with the aim of strengthening their fragmented system and enhancing sport participation (Cousens et al., 2012). Hence, to promote growth it seems vital that national governing bodies involved in ID-sport (including ID-sport, disability sport and mainstream sport organisations) develop powerful connections and work in partnership to develop a well-grounded network between organisations. Even when the goals and strategies of each organisation differ, such a network can help to build a more solid and coordinated national ID-sport system, which ultimately might enhance the effectiveness of targeting athletes and providing them the best opportunities in accord with their aims, needs, and performance levels. Furthermore, if a national sport system is well-organised, within and between the different main sport drivers, it might facilitate the development of an infrastructure which provides a long-term sustainable developmental trajectory for talented athletes (from grassroots to elite level).

The present study showed that in the 10 assessed countries there was at least one formal connection (i.e., bilateral connection as members and/or work in partnership) between two of the major ID-sport organisations. This connection was found between the NPC and the national representation of Virtus, which were the two main national drivers of high-performance ID-sport in all the assessed countries. Working in partnership can be difficult when the goals or performance levels are different, or when there is a big gap in terms of

funding or influential power between the different organisations. Our findings showed that the assessed countries were spread along a continuum with not all the ID-sport organisations actively working in partnership, compared to other countries where comprehensive connective network between all the major ID-sport organisations had been established. Both the Icelandic and Swedish ID-sport organisations positively valued that all their national organisations were working under the same roof in a unique disability-sport organisation. It should be noted that these two countries are the least populated of the sample (Eurostat, n.d.), which might have facilitated this situation. Nevertheless, in a highly populated country like Germany, it was found that the three main national ID-sport organisations were working in partnership. It is normal that there might be a certain degree of discrepancy and challenge between different sport organisations but through trust and commitment to shared outcomes obstacles can be overcome (Robson, 2001). Indeed, the array of organisational networks found in this study demonstrates that there are no organisations which cannot work together, such collaboration depends on other factors.

Although each European country has its own geographical and socio-cultural particularities, a collaborative environment between the major ID-sport organisations (even if they have different target goals and performance levels), like in Iceland, Sweden, or Germany, might serve to inspire other European countries. Sharing such examples of good practise might stimulate other countries to strengthen their current partnerships or to create new formal connections with the other organisations involved in ID-sport. For instance, to build a more solid national structure (e.g., in countries with a decentralised and fragmented landscape, like Belgium and Great Britain); and/or to develop new connections with the other ID-sport organisations, such as with SO, which frequently remains apart in the national ID-sport network (i.e., in Belgium, France, and Poland). Moreover, the inclusion of SO as a partner in a connected landscape might play an important role on young athletes' sport engagement and development at grassroots (Favazza et al., 2013; Special Olympics Sweden,

2021). As stated above, even if there are different sport organisations coexisting in a country, a strong partner network could benefit the coordination and provision of sports at all levels (Cousens et al., 2012) for people with ID.

Another strategy to enhance ID-sport participation can be achieved by encouraging and promoting inclusion in mainstream sport, since such a strategy might increase the number of opportunities for athletes with ID to practise the sport of their choice at any level (Misener & Darcy, 2014). Moreover, sport and PA are considered drivers of active social inclusion (Burns, 2018; European Commission, n.d.; Harada et al., 2011) resulting in European mainstream sport organisations progressively increasing their involvement in disability sport, including ID-sport, encouraged by the implementation of the CRPD in 2008 (UN General Assembly, 2007), and European Commission inclusion strategies (European Commission, 2011; European Union, 2021).

All the assessed European countries have started to work towards the inclusion of disability sport (including ID-sport) in mainstream sport. Accordingly, results showed that most of the major national ID-sport organisations included national mainstream sport federations among their networks in order to work towards sport inclusion. However, the extent of ID-sport inclusion varied among the assessed countries. It was found that some European countries reported a more premature process of inclusion compared to others that already included or delegated some sport disciplines into mainstream sport. Nevertheless, in most of the countries, there was an active plan to increase the number of sport disciplines to be included in the mainstream and some also developed further national supportive policies concerning disability sport.

It is important to establish supportive policies and laws that enhance the recognition of disability sport (including ID-sport) and contribute to ensuring equal rights for sport participation at all levels (Misener & Darcy, 2014; UN General Assembly, 2007). However, it has been suggested by participants in this study that the process of inclusion might be more

likely to succeed with an in-depth preparation phase (where ID-sport and multi-disability-sport federations can play an important role to transform mainstream sport federations), followed by progressive implementation and regular monitoring. For instance, the CRPD implementation (UN General Assembly, 2007) is monitored in each country every five years (UN Human Rights Council, 2022).

A systematic, comprehensive and well-evidenced inclusion strategy might better meet the needs of people with disabilities to ensure a successful and high-quality inclusion process. However, it should consider the diverse needs of people with different types of disabilities (Misener & Darcy, 2014), to avoid any potential disadvantages amongst groups with different types of disabilities, which have typically been unfavourable for people with ID and/or for people with severe disabilities. The adoption of an international framework on which to base inclusion may be helpful. For example, the International Classification of Functioning, Disability and Health (ICF) model (WHO, 2001) offers a framework that is based on function not on diagnosis, and as such identifies challenges to inclusion on which to base inclusive practices. This model already underpins the IPC approach to classification and provides a proven cross-disability approach to sport inclusion (Tweedy, 2002). It should also be noted that research has been critical of inclusion monitoring strategies which do not specify the type of disability, as people with ID can be 'lost' in generic disability statistics resulting in possible increases in inclusion for 'disabled' people but not necessarily for those with ID (Krahn, 2019).

Limitations and future research directions

Ten European nations were assessed; however, results cannot be interpreted for all Europe, and neither a unique model for ID-sport can be suggested as an optimal one since each country has its unique social and environmental differences. Nevertheless, different strategies and examples of good practise can be shared to improve the current ID-sport models. Therefore, it might be interesting to analyse the situation of ID-sport in other nations,

especially those who are seen as most successful, taking a wider audit of operational context including their funding arrangements.

Single representatives on behalf of each organisation were interviewed, perhaps limiting the range of perspectives. However, the questionnaire was sent in advance to all the organisations, so they had the opportunity to discuss it with other staff members and to choose their representative person. In addition, the study involved several organisations in each country, so data could be triangulated to mitigate this limitation. Future studies might consider sampling multiple participants from a diagonal slice across the organisational structure to elicit views from the strategic to the operational within each organisation.

Finally, this study aimed to focus on the organisational structure of ID-sport (i.e., the organisational ID-sport landscape attending to the nature of the main ID-sport organisations, and their level of connection and network). Nevertheless, it might be interesting that future studies analyse the national situation of ID-sport by looking at the outcomes of the different structures. For instance, how the different national models translate into participation rates across the recreational to high-performance continuum; and/or, how different funding sources and economic investment in ID-sport might have an impact on participation. For nations which are moving to more inclusive practice within mainstream sport it is also important to identify if the specific needs of participants with ID are being met, and they are not being subsumed under wider disability initiatives, which do not make the required adaptations. This is especially important for this group who may need greater support to advocate for their needs.

Conclusions

The present study included countries from different European geographical areas to get a broad view of ID-sport structures in Europe. Every country has its own characteristics (e.g., geographical location, politics, economics, history, culture, etc.), which will have an

impact on the development, management, and provision of ID-sport. Consequently, it is important to acknowledge that these results are limited to the 10 countries sampled.

Attending to the main drivers of ID-sport in each country, the results identified a more ID-specific landscape in France, Italy, Poland, and Spain. Other countries like Belgium, Great Britain, Iceland, and Sweden showed a multi-disability-oriented landscape. Only the Netherlands had a fully mainstream-oriented landscape, although results suggested that the inclusion of disability sport in the Netherlands happened quite abruptly without a studied implementation strategy. Nevertheless, in all assessed countries, the mainstream sport federations were playing a role in providing ID-sport opportunities.

Connections between the major ID-sport organisations also varied between the different assessed countries. In these 10 countries, the NPC was connected with the national representation of Virtus, and in six of these 10 countries, the NPC also connected with the national SO. However, Virtus and SO were usually not working in partnership; such connection mostly happened when the three major ID-sport organisations worked together under a unique umbrella sport organisation.

Results from this study might help stakeholders and bodies involved in the management, organisation, and/or provision of ID-sport to better understand the situation of ID-sport in their home countries and across Europe. Examples of good practice among different countries might be useful for a positive evolution of ID-sport and for people with ID to have equal opportunities for sport participation at any level. However, for such successful inclusion to be evidenced more robust data on participation rates by disability is needed.

591	References
592	Al-Ababneh, M. M. (2020). Linking ontology, epistemology and research
593	methodology. Science & Philosophy, 8(1), 75-91.
594	http://dx.doi.org/10.23756/sp.v8i1.500
595	Baker, C., El Ansari, W., & Crone, D. (2017). Partnership working in sport and physical
596	activity promotion: An assessment of processes and outcomes in community sports
597	networks. Public Policy and Administration, 32(2), 87-109.
598	https://doi.org/10.1177/0952076715625104
599	Braun, V., & Clarke, V. (2013). Successful qualitative research: A practical guide for
600	beginners. Sage
601	Braun, V., Clarke, V. & Weate, P. (2016). Using thematic analysis in sport and exercise
602	research. In B. Smith & A. C. Sparkes (Eds.), Routledge handbook of qualitative
603	research in sport and exercise (pp. 191-205). Routledge.
604	Burns, J. (2018). Intellectual Disability, Special Olympics and Parasport. In I. Brittain & A.
605	Beacom (Eds.), The Palgrave Handbook of Paralympic Sport (pp. 417- 437). Palgrave.
606	Burns, J., Carter, A., Draper, S., & Foad, A. (2022). Engaging and sustaining people with
607	intellectual disabilities in physical activity: a narrative review of existing
608	evidence. International Journal of Developmental Disabilities, 1-11.
609	https://doi.org/10.1080/20473869.2022.2149096
610	Chilton, F., & Collett, R. A. (2008). Treatment choices, preferences and decision-making by
611	patients with rheumatoid arthritis. Musculoskeletal care, 6(1), 1–14.
612	https://doi.org/10.1002/msc.110
613	Creswell, J. W. (2009). Research design: Qualitative, quantitative, and mixed methods
614	approaches (3 rd ed.). Sage Publications, Inc.
615	Cousens, L. L., Barnes, M. L., & MacLean, J. (2012). Strategies to increase sport
616	participation in Canada: The role of a coordinated network. International Journal of

617	Sport Management and Marketing, 12(3/4), 198-216.
618	https://doi.org/10.1504/IJSMM.2012.052667
619	Dairo, Y. M., Collett, J., Dawes, H., & Oskrochi, G. R. (2016). Physical activity levels in
620	adults with intellectual disabilities: a systematic review. Preventive Medicine Reports, 4,
621	209-219. https://doi.org/10.1016/j.pmedr.2016.06.008
622	Diana, A. (2012). Chapter 1. Definitional Issues and Knowledge Gaps. In A. L. Meyer & T.
623	P. Gullotta (Eds.), Physical activity across the lifespan: Prevention and treatment for
624	health and well-being. Issues in children's and families' lives (pp. 1-22). Springer.
625	European Commission. (2011). Communication on sport (2011): developing the European
626	dimension in sport. Publications Office of the European
627	Union. https://data.europa.eu/doi/10.2766/16589
628	European Commission. (n.d.). Social inclusion. Retrieved March, 24, 2022, from
629	https://sport.ec.europa.eu/policies/sport-and-society/social-inclusion
630	Eurostat. (n.d.). Retrieved April, 3, 2021, from https://ec.europa.eu/eurostat
631	European Union. (2021). Union of Equality: Strategy for the Rights of Persons with
632	Disabilities 2021-2030. Publications Office of the European Union.
633	Favazza, P. C., Siperstein, G. N., Zeisel, S. A., Odom, S. L., Sideris, J. H., & Moskowitz, A.
634	L. (2013). Young Athletes program: impact on motor development. Adapted physical
635	activity quarterly, 30(3), 235–253. https://doi.org/10.1123/apaq.30.3.235
636	Harada, C. M., Siperstein, G. N., Parker, R. C., & Lenox, D. (2011). Promoting social
637	inclusion for people with intellectual disabilities through sport: Special Olympics
638	International, global sport initiatives and strategies. Sport in society, 14(9), 1131-1148.
639	https://doi.org/10.1080/17430437.2011.614770
640	Harvey, N., & Holmes, C. A. (2012). Nominal group technique: an effective method for
641	obtaining group consensus. International journal of nursing practice, 18(2), 188-194.
642	https://doi.org/10.1111/j.1440-172X.2012.02017.x

- 643 IDEAL project Erasmus+. (2020). Retrieved September 29, 2020, from
- 644 https://www.idealproject.org/
- Jacinto, M., Vitorino, A. S., Palmeira, D., Antunes, R., Matos, R., Ferreira, J. P., & Bento, T.
- 646 (2021). Perceived Barriers of Physical Activity Participation in Individuals with
- Intellectual Disability-A Systematic Review. *Healthcare*, 9(11), 1521.
- 648 https://doi.org/10.3390/healthcare9111521
- Krahn, G. L. (2019). A call for better data on prevalence and health surveillance of people
- with intellectual and developmental disabilities. *Intellectual and Developmental*
- *Disabilities*, 57(5), 357-375. https://doi.org/10.1352/1934-9556-57.5.357
- Lantz, E., & Marcellini, A. (2018). Sports games for people with intellectual disabilities.
- Institutional analysis of an unusual international Configuration. Sport in Society, 21(4),
- 654 635-648. https://doi.org/10.1080/17430437.2016.1273612
- 655 Levitt, H. M., Motulsky, S. L., Wertz, F. J., Morrow, S. L., & Ponterotto, J. G. (2017).
- Recommendations for designing and reviewing qualitative research in psychology:
- Promoting methodological integrity. *Qualitative psychology*, 4(1), 2-22.
- http://dx.doi.org/10.1037/qup0000082
- McConkey, R., & Menke, S. (2022). The community inclusion of athletes with intellectual
- disability: A transnational study of the impact of participating in Special Olympics. *Sport*
- *in Society*, 25(9), 1756-1765. https://doi.org/10.1080/17430437.2020.1807515
- Maxwell, J. A. (2012). A realist approach for qualitative research. Sage
- Misener, L. & Darcy, S. (2014). Managing disability sport: From athletes with disabilities to
- inclusive organisational perspectives. *Sport Management Review, 17*(1), 1-7.
- https://doi.org/10.1016/j.smr.2013.12.003
- Nair, R., Chen, M., Dutt, A. S., Hagopian, L., Singh, A., & Du, M. (2022). Significant
- regional inequalities in the prevalence of intellectual disability and trends from 1990 to
- 2019: a systematic analysis of GBD 2019. Epidemiology and psychiatric sciences, 31,

669	e91. https://doi.org/10.1017/S2045796022000701
670	Robertson, J., Emerson, E., Baines, S., & Hatton, C. (2018). Self-reported participation in
671	sport/exercise among adolescents and young adults with and without mild to moderate
672	intellectual disability. Journal of Physical Activity and Health, 15(4), 247-254.
673	https://doi.org/10.1123/jpah.2017-0035
674	Robson, S. (2001). Partnerships in sport. In P. Bramham, K. Hylton & D. Jackson (Eds.),
675	Sports Development: Policy, Process and Practice (pp. 99-125). Routledge.
676	Schinke, R.J., McGannon, K.R. & Smith, B. (2013). Expanding the sport and physical
677	activity research landscape through community scholarship. Qualitative Research in
678	Sport, Exercise and Health, 5, 287-290. https://doi.org/10.1080/2159676X.2013.847477
679	Schalock, R. L., Luckasson, R., & Tassé, M. J. (2021). Intellectual disability: Definition,
680	diagnosis, classification, and systems of supports (12th Edition). American Association
681	on Intellectual and Developmental Disabilities.
682	Smith, B., & McGannon, K. R. (2018). Developing rigor in qualitative research: Problems
683	and opportunities within sport and exercise psychology. International Review of Sport
684	and Exercise Psychology, 11(1), 101-121.
685	https://doi.org/10.1080/1750984X.2017.1317357
686	Special Olympics. (2021). 2021 Global Reach Report. Retrieved April 14, 2023 from
687	https://media.specialolympics.org/resources/reports/reach-reports/2021-Global-Reach-
688	Report.pdf?_ga=2.19779704.1592307926.1681827738-1353029187.1681827738
689	Special Olympics. (2020). Out of the Shadows: Events Leading to the Founding of Special
690	Olympics. Retrieved December, 14, 2020, from
691	https://www.specialolympics.org/about/history/out-of-the-shadows-events-leading-to-
692	the-founding-of-special-olympics
693	Special Olympics Sweden. (2021). För bättre hälsa och glädje. Retrieved April, 3, 2021,
694	from https://specialolympics.se/borja-idrotta/

CDODT	CTDLICTIO	-C VVID	INITELLECTION	DICABILITIES
SPURI	STRUCTUR	-5 AND	INTELLECTUAL	- DISABILITIES

- 695 St John, L., Borschneck, G., & Cairney, J. (2020). A systematic review and meta-analysis
- examining the effect of exercise on individuals with intellectual disability. *American*
- 697 *Journal on Intellectual and Developmental Disabilities*, 125(4), 274-286.
- 698 https://doi.org/10.1352/1944-7558-125.4.274
- Tweedy, S. M. (2002). Taxonomic theory and the ICF: foundations for a unified disability
- athletics classification. Adapted Physical Activity Quarterly, 19(2), 220-237.
- 701 https://doi.org/10.1123/apaq.19.2.220
- Tweedy, S., & Howe, P. D. (2011). Introduction to the Paralympic Movement. In Y. C.
- Vanlandewijck, & W. R. Thompson (Eds.), Handbook of Sports Medicine and Science:
- 704 *The Paralympic Athlete* (pp. 3-30). Wiley- Blackwell.
- 705 UN General Assembly. (2007). Convention on the Rights of Persons with Disabilities.
- 706 https://www.un.org/development/desa/disabilities/convention-on-the-rights-of-persons-
- 707 with-disabilities.html
- 708 UN Human Rights Council. (2022). Universal Periodic Review. Retrieved May, 3, 2022, from
- 709 https://www.ohchr.org/en/hrbodies/upr/pages/uprmain.aspx
- Van Biesen, D., Burns, J., Mactavish, J., Van de Vliet, P., & Vanlandewijck, Y. (2021).
- 711 Conceptual model of sport-specific classification for para-athletes with intellectual
- 712 impairment. *Journal of Sports Sciences*, 39(sup1), 19-29.
- 713 https://doi.org/10.1080/02640414.2021.1881280
- 714 Virtus. (2019). *History of Virtus*. Retrieved December, 21, 2020, from
- 715 https://www.virtus.sport/about-us/who-we-are/history-of-virtus
- 716 WHO. (2018, February 23). *Physical Activity*. Retrieved September, 6, 2020, from
- 717 https://www.who.int/news-room/fact-sheets/detail/physical-activity
- 718 WHO. (2001). *International Classification of Functioning, Disability and Health: ICF*.
- 719 WHO.

720	WHO. (2020). Noncommunicable diseases and their risk factors. Retrieved December, 9,
721	2020, from https://www.who.int/ncds/prevention/physical-activity/inactivity-global-
722	health-problem/en/
723	Yu, S., Wang, T., Zhong, T., Qian, Y., & Qi, J. (2022). Barriers and Facilitators of Physical
724	Activity Participation among Children and Adolescents with Intellectual Disabilities: A
725	Scoping Review. Healthcare (Basel, Switzerland), 10(2), 233.
726	https://doi.org/10.3390/healthcare10020233
727	

728 **Table 1**729 *Organisational Characteristics*

Demographics	ID-sport organisations $(n = 29)$
Organisations' national representation	$(\Pi - 29)$
NPC	3
Virtus	5
SO	7
NPC-Virtus	4
NPC-Virtus-SO	1
Others	9
	9
ID-sport organisation according to the type of disability ID specific	15
Multi-disability	13
Mainstream	
Sport umbrella-organisation	1
Yes	25
No	4
Focused only on competition	11
Focused only on recreation	4
Focused on both competition and recreation	14
Types of sports and/o PA	14
Focused on organised-sports ^a	15
Focused on non-organised-sports ^b and other activities ^c	13
Focussed on both organised- and non-organised-sports	14
and other activities	14
Sports included in the organisation	
Single sport	
Multi-sports	29
Frequency of sport or PA provision	4 3
On a regular basis throughout the year	24
Occasionally ^d	5
Non-profit organisations	28
For-profit organisations	1
Vota aOrganised sports meant as sports with structured rules bNon-organ	1

730 Note. aOrganised-sports meant as sports with structured rules. bNon-organised sports meant as physical

activity without structured sport-rules, fitness, etc. Other activities meant as games, social activities,

etc.^dOccasional sport activities, events or an annual competition.

733 ID = Intellectual Disabilities. NPC = National Paralympic Committee. SO = Special Olympics. ID-

sport = sports for people with intellectual disabilities. PA = Physical Activities.

731

736 **Table 2**

737 Participant characteristics

Organisational position		N	Country		N
	Chief Executive Officer	3		Belgium	5
	President/Director	4		France	1
	Vice President	1		Germany	2
	Managing Director	2		Great Britain	6
	Sport Director	6		Iceland	2
	Sport Manager	2		Italy	3
	Sport Co- ordinator	3		Netherlands	2
	Spokesperson	2		Poland	3
	General Secretary	3		Spain	4
	Technical Counsellor	1		Sweden	1
	National Partnership Advisor	1			
	Head of Strategy, evidence and insight	1			
Funding	111018111				
<u> </u>	State funded	11			
	Private (charity of self-funding	15			
	Neither	3			

Table 3
 Connections Between the ID-sport Organisations and Other National Sport Organisations Involved in ID-Sport

Countries	ID-sport	Organisations'	Member connection	Main official	Main official	Connections to certain	Connections
(n = 10)	organisations	representation at	between the ID-sport	connections	connections	extent and / or	with
	(n = 29)	national level	organisations and/or	between the ID-	between other	sporadically	schools
			other NSO	sport organisations	NSO	collaborations	
Belgium	P1	NPC – Virtus	NPC	P2	Other NSOD		Yes
					Mainstreams		
	P2	NPC – Virtus	NPC	P1	Mainstreams		Yes
	P3	Other ^a			Mainstreams	Other NSOD	Yes
	P4	Other ^a				Mainstreams	Yes
	P5	SO				Other NSOD	Yes
France	P6	Virtus	NPC		Mainstreams	Other NSOD	Yes
Germany	P7	NPC – Virtus	Mainstream ^b P8		Mainstreams		Yes
	P8	SO	Mainstream ^b P7		Mainstreams		Yes
Great Britain	P9	Virtus	NPC	P11	Mainstreams		Yes
				P12	Other NSOD		
				P13	Other NSOID		
				P14			
	P10	SO	P12	P11	Mainstreams		Yes
				P13	Others NSOD		
				P14			
England	P11	Other ^c	P12	P9	Mainstreams		No
				P10			
	P12	Othera	P10	P9	Others NSOD		No
			P11	P13	Other NSOID		
			Others NSOD	P14	Mainstreams		
Scotland	P13	Othera	NPC	P9	Others NSOD		Yes
			Others NSOD	P10	Mainstreams		
				P12			
				P14			
Wales	P14	Othera	Other NSOID	P9	Mainstreams		Yes

			Others NSOD	P10 P12 P13	Others NSOD NPC		
Iceland	P15	NPC - Virtus - SO	P16		Mainstreams		Yes
	P16	SO^d	P15		Mainstreams		Yes
Italy	P17	Virtus	NPC P18		Mainstreams Others NSOD Other NSOID		Yes
	P18	Other ^c	NPC P17 Mainstream		Other NSOID Others NOASD Mainstreams	Mainstreams NOC NPC	Yes
	P19	SO	NPC		Mainstreams		Yes
Netherlands	P20	NPC	NOC Mainstreams P21		SO Others NSOD Mainstreams		Yes
	P21	Other ^a	P20		Mainstreams	SO Other NSOD	Yes
Poland	P22	NPC	P23 Others NSOD		Mainstreams		Yes
	P23	Virtus	P22		Mainstreams		Yes
	P24	SO			Other NSOID		Yes
Spain	P25	NPC	P26 P27 Mainstreams Others NSOD		Mainstream ^b Mainstreams Others NSOD NOC		Yes
	P26	Virtus	P25 P28		Others NSOD Mainstream ^b	Other NSOD	No
	P27	SO	P25		Other NSOID Mainstreams	Mainstreams	Yes
	P28	Other ^c	P26		Mainstreams	SO	Yes
Sweden	P29	NPC – Virtus – SO	Others NSOD Mainstream ^b		Mainstreams		Yes

⁷⁴¹ *Note*. Other: refers to a sport organisation/federation/association that does not represent the National Paralympic Committee, the national representation of Virtus, or the

national Special Olympics. Mainstreams: refers to the sport organisaitons/federations/associations/foundations that traditionally managed or provided sport for people without

a disability and now are also including disability-sport (and ID-sport).

^aSport organisation/federation/association for people with different types of disabilities. ^bNational Confederation for all sports. ^cSport organisation/federation/association specific for people with intellectual disabilities. ^dThere is one disability sport organisation that covers all disability sport at all levels in Iceland; however, Special Olympics Iceland decided to participate separately as they reported to have different duties, projects, and records of registered athletes with intellectual disabilities.

ID = Intellectual disabilities. NSO = National Sport Organisations involved in the management, organisation or provision of ID-sport. P = participant. NPC = National Paralympic Committee. NSOD = National Sport Organisation for people with Disabilities. SO = Special Olympics. NSOID = National Sport Organisation for people with Intellectual Disabilities. NOASD = National Organisation specific for people with Autism Spectrum Disorder. NOC = National Olympic Committee.

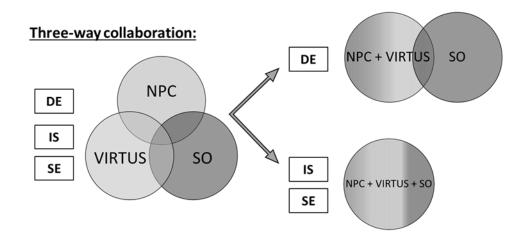
Figure 1

753

754

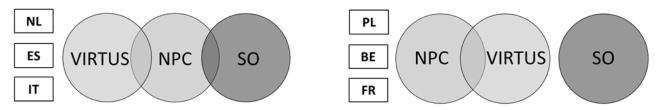
Graphical Representation of the Different Connective Scenarios Between the Main

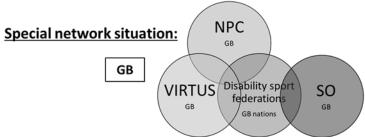
National ID-Sport Organisations Across Europe



Two-way collaboration:

One-way collaboration:





Note. DE = Germany; IS = Iceland; SE = Sweden; NPC = National Paralympic Committee; SO =

 $Special\ Olympics;\ NL = the\ Netherlands;\ ES = Spain;\ IT = Italy;\ PL = Poland;\ BE = Belgium;\ FR = Poland;\ PL = Poland;\$

France; GB = Great Britain.

758

755

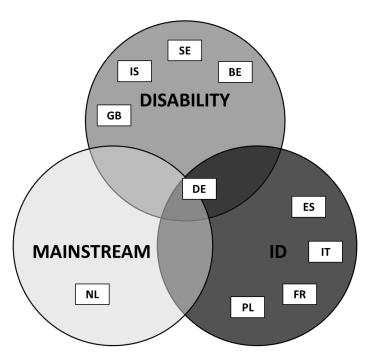
756

757

Figure 2

Graphical Representation of the General Landscape According to the Type of the

Main ID-Sport Providers Across Europe



762

763

764

765

766

768

760

761

Note. There are three general-oriented landscapes: mainstream-oriented landscape; disability-oriented

 $land scape; and \ Intellectual \ Disability \ (ID) \hbox{-} oriented \ land scape.$

SE = Sweden; IS = Iceland; BE = Belgium; GB = Great Britain; DE = Germany; ES = Spain; ID =

Intellectual disabilities (oriented landscape); IT = Italy; NL = the Netherlands; FR = France; PL =

767 Poland.

For GB, the three different nations' landscapes (i.e., England, Scotland and Wales) were considered for

769 the analysis.