Positive Youth Development and Physical Activity/Sport Interventions: Mechanisms Leading to Sustained Impact 3

Abstract

Sport/physical activity interventions are sometimes viewed as a panacea for youth-related social 5 6 problems, and this may explain their proliferation. Yet, there is little robust evidence to support some 7 of the claims made for the efficacy of such programmes, particularly those relating to sustained benefits 8 for young people. The purpose of this paper is to report findings from longitudinal research on two 9 youth sport/physical activity interventions in the UK in order identify key features in their design that 10 were found to be central to sustained positive impact. The physical activity programmes sought to 11 address youth disaffection and disengagement and they were evaluated by one research team using a 12 common evaluation strategy. Both programme sponsors were committed to learning from the 13 evaluation findings and to wider dissemination. The programmes are explained, data on sustainability 14 of impact are reported from each project and the findings considered together to identify common 15 themes. Data suggest that six key features should be embedded in the design of physical activity/positive youth development programmes and that, in combination and through complex 16 17 interaction, they can maximise the potential for sustained positive impact on youth participants. 18 19 Keywords: positive youth development; youth disaffection; physical activity programmes;

20 programme evaluation; sustained impact.

21 Positive Youth Development and Physical Activity/Sport Interventions: Mechanisms leading to 22 **Sustained Impact** 23 24 Introduction 25 There has been significant concern in contemporary society about 'problematic' behaviour 26 among young people, and growing levels of youth disaffection and disengagement (DSS, 1999; SEU, 27 2000; Steer, 2000; Newburn & Shiner, 2005). Certainly, within the UK, youth disaffection is a frequent 28 topic of discussion in public discourse, often fuelled by media representations of disruptive, 29 disrespectful and dangerous young people. This has led to both political debate and the formation of 30 government policy (Sandford, Duncombe & Armour, 2008). In particular, worries about young 31 people's involvement in anti-social or criminal behaviour, their disengagement from education/training 32 and their perceived lack of civic engagement and responsibility have heightened concerns regarding the 33 potential impact on social order (DfES, 2003a,b; Davies, 2005; Newburn & Shiner, 2005; France, 34 2007). Such concerns, however, are not confined to the UK. Indeed, debates concerning youth 35 disaffection, disengagement and perceived anti-social behaviour abound in a number of fields and 36 disciplines across the Western world (Smink, 2000; Sandford, Armour & Warmington, 2006). 37 Moreover, as Newburn & Shiner (2005) point out, panic concerning 'problematic' youth is not new but 38 has prevailed throughout history. The intensity of current concerns, however, has led to calls for 39 'action' to address the issue. 40 Engagement in sport and other forms of physical activity has traditionally been credited with

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having a particularly valuable role in tackling youth disaffection and disengagement (France et al.,
2007). This seems to be rooted in the belief that sport encourages moral and social responsibility, prosocial behaviours and respect for others (Eley and Kirk, 2002; Russell, 2004). Such beliefs are
heightened in the case of 'Outward Bound' activities where it is often argued that the challenge
inherent in such activities offers unique learning opportunities (Neill & Dias, 2001). The two
programmes reported in this paper used a mixture of sport, outward bound and other physical activities

47 to engage young people. The aspirations for young people governing both programmes were, however,
48 almost identical, including a strong focus on generating positive outcomes for young people that could
49 be sustained over time.

50 Ruiz (2004) among others has pointed to the difficulty of linking participation in sport and 51 physical activity to the wide ranging impacts that are often claimed by intervention programmes and, 52 along with others, has argued for more - and more robust - research evidence (Bailey, 2005; Holt & 53 Jones, 2008). The two programmes evaluated in this paper were somewhat unique in that both sponsors funded independent longitudinal evaluation projects and expressed a strong interest in learning from 54 55 the data and sharing findings more widely. Nonetheless, as is reported in detail in section (iii), the 56 broad aims of the programmes and the flexibility offered to participants made the evaluation 57 particularly challenging.

58 This paper has the dual purpose of identifying the themes from the data that contributed to the 59 reported sustained impact on participants, and analysing the complex ways in which these themes 60 interacted in these two programmes. Thus, the paper can contribute to the knowledge base on the ways 61 in which such programmes can be designed to maximise the potential for sustained impact. The paper 62 is organised into five main sections: (i) An overview of the underpinning theory related to using sport 63 and physical activity programmes as a form of positive youth development; (ii) a description of the two 64 programmes evaluated; (iii) the methodological framework for the evaluation; (iv) findings on 65 sustainable impact reported from each programme; and (v) discussion on the complex ways in which 66 the six key programme design features interacted in order to facilitate sustained positive impact on 67 youth participants.

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Theoretical Underpinnings: Physical Activity/Sport for Positive Youth Development

Within the UK, moral panic has resulted in a raft of policies, programmes and government measures
intended to tackle the problem of youth disaffection and facilitate young people's re-engagement and
positive development (see Sandford, Duncombe & Armour 2008 for a detailed discussion).

73 Interestingly, many of these policies and programmes (e.g. PESSCL, Positive Futures, NOPESⁱ) 74 involve the use of sport and physical activity interventions as tools to be used to enhance personal 75 development. This would appear to be rooted in the long standing belief that engagement in sport, in 76 particular, can instil character, develop positive attributes, enhance moral development and secure 77 wide-ranging benefits for disengaged young people (Martinek & Hellison, 1997; Miller, Bredemeier & 78 Shields, 1997; Burt, 1998; Theodoulides & Armour, 2001; Eley & Kirk, 2002; Holt, 2008). Moreover, 79 given its potential to reach large and diverse groups of young people, school physical education has 80 also come to be viewed as an important context in which disaffected pupils can be re-engaged (Bailey, 81 2005; France et al., 2007). Indeed, a recent UK government report reinforced the perceived 82 significance of physical education and school sport (PESS) for tackling youth disaffection, suggesting 83 that it can help to, among other things, improve behaviour, attendance and educational attainment 84 (DCMS, 2007).

85 Outside of government generated programmes, the 'social problems industry', driven by the belief 86 that physical activities can address social concerns (Pitter & Andrews, 1997) has resulted in numerous 87 independent or corporate-sponsored initiatives (such as those outlined in this paper) designed to re-88 engage disaffected youth through participation in structured physical activities. Many of these 89 programmes make use of outdoor or adventurous physical activities, reflecting a belief in their positive 90 youth development potential. Indeed, there is a significant body of literature available on the use of 91 outdoor/adventurous activities as a means of promoting youth personal development (Nichols, 1997; 92 Garst, Schneider & Baker, 2001; Newton, Sandberg & Watson, 2001). Moreover, claims regarding the 93 educational value of Outward Bound programs have been the focus of a number of evaluation studies. 94 Hattie et al., (1997), for example, concluded that there was sufficient evidence to suggest that Outward 95 Bound programmes were able to have a positive impact on individuals (for example, in relation to 96 increased confidence, leadership and communication skills) and that there was some potential for these 97 impacts to be sustained over time.

98 Around the world there are further examples of sport, physical activity and physical education 99 programmes being used to facilitate positive development and re-engage young people in education and 100 society more broadly. Examples from the US include Siedentop's (1994) Sport Education, Hellison's 101 (1995) Teaching Personal and Social Responsibility, and Ennis' (1999) Sport for Peace. Bailey (2008) 102 has argued that findings from the evaluations of programs such as these are "cautiously optimistic" 103 (p.89). Research has indicated the propensity for such programmes to facilitate, among other things, an 104 increased sense of belonging, a respect for both self and others, a more positive attitude to physical 105 activity/physical education and a shared responsibility for learning (Ennis et al., 1999; Hellison & 106 Walsh, 2002; MacPhail, Kirk & Kinchin, 2004). In addition, some studies have pointed to the potential 107 of physical activity/physical education to contribute, more specifically, to young people's socio-moral 108 development. For example, in their review of the 'Fair Play for Kids' program, Gibbons, Ebbeck & 109 Weiss (1995) noted that participation could be seen to effect positive change on the moral development 110 of pupils.

111 While such findings are encouraging, it has also been argued that more research is required to 112 explore the long-term impact of program participation on young people and the mechanisms by which 113 changes occur (Holt & Jones, 2008). These kinds of youth re-engagement programmes represent a 114 changing viewpoint regarding adolescent development that, as Holt (2008) notes, has occurred over the 115 last decade or so and has come to be labelled 'positive youth development' (PYD). PYD is defined as a 116 constructive approach to young people's development through the period of adolescence, focusing on 117 the talents, strengths and potential of each individual. As Lerner et al., (2005) have noted, this is a 118 strength-based and broad conception of youth development, which is in contrast to the more traditional 119 deficit-reduction approaches. Damon (2004) concurs:

120 This new approach envisions young people as resources rather than as problems for society.

121 The positive youth development perspective emphasizes the manifest potentialities rather than

122 *the supposed incapacities of young people – including young people from the most*

123 *disadvantaged backgrounds and those with the most troubled histories (p.15).*

124 The programmes reported in this paper took a very broad approach to positive impact and the term 125 'positive youth development' seems to capture not only that scope but also the key focus on young 126 people's potential to both engage and develop.

127 There is strong support in the literature for the potential of sport/physical activity to facilitate 128 positive youth development, but historically there has been a lack of robust, empirical data to support 129 claims to effectiveness (see, for example, Morris et al., 2003). More recently, however, there is an 130 emerging body of evaluation research that is providing evidence of both immediate positive impact 131 and, in some cases, sustained impact (e.g. Crabbe, 2006b; Sandford, Armour & Duncombe, 2008). 132 Moreover, knowledge is accumulating concerning the ways in which future initiatives should be 133 designed in order to maximise the potential benefits for young people and facilitate the sustainability of 134 positive impact (e.g. Sandford, Duncombe & Armour, 2008). In particular, it is now widely agreed that 135 a key element in effecting positive behavioural change is developing programmes and interventions 136 that have an explicit focus on personal development by promoting positive relationships between 137 participants (Ennis et al., 1999; Crabbe, 2006a; Hellison, Martinek & Walsh, 2008; Holt & Sehn, 2008; 138 Petitpas, Cornelius & Van Raalte, 2008).

139 Despite the emerging evidence, questions remain about the precise mechanisms by which positive 140 youth development can be facilitated through sport/physical activity programmes. Researchers agree 141 that further systematic, longitudinal evaluation research is needed in order to shed light on these 142 mechanisms and processes (e.g. Long & Sanderson, 2001; Sandford, Armour & Warmington, 2006). In 143 providing research evidence from the evaluation of two UK-based programmes intended to promote 144 positive youth development through physical activities, and drawing out common themes, it is hoped 145 that this paper can go some way toward addressing these questions. In the next section, key design 146 features of the two programmes are summarised and this provides important contextual information for 147 the development of the evaluation research strategy.

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Key Features of the Programmes Evaluated

150 The data considered in this paper are from the evaluation of two corporate-sponsored initiatives that 151 aimed to use physical activity to re-engage disaffected or disengaged young people in education. The 152 programmes were the HSBC/Outward Bound (HSBC/OB) project and the Sky Sports Living For Sport 153 (SSLfS) programme.

154 The HSBC/OB project ran for five years between September 2003 and August 2008. Based on a partnership between HSBC in the Communityⁱⁱ, the Outward Bound Trustⁱⁱⁱ, and five schools local to 155 156 HSBC's UK head office in the Docklands areas of London; it comprised fully-funded, partially 157 residential outdoor/adventurous activity experiences for pupils deemed by their teachers to be 158 disaffected, disadvantaged or disengaged. In each of the five years of the programme, a cohort of 30 159 young people from year 9 in each school (ages 13-14 years) were selected to undertake a year-long 160 programme of structured outdoor activities (150 pupils in total each year). These activity sessions were 161 designed (by the Outward Bound Trust) to provide individual and group challenges and to develop 162 skills such as team building, communication, and responsibility. Moreover, the sessions were intended 163 to scale progressively, providing more challenging experiences for a smaller number of pupils as they 164 moved through the programme year and affording increased opportunities for these individuals to take 165 responsibility for themselves and others. In addition, a central element of the programme was that each 166 year, a number of HSBC staff volunteered to be involved as mentors, and were trained (by youth 167 workers from one of the programme schools) to work with schools and pupils both within the programme sessions and in follow-up activities within the schools. 168

Each programme year began with an introductory activity day for all pupils during which participants were given the opportunity to meet each other and engage in some basic team-building and sports activities. This was then followed by three residential activity sessions: a week-long event at one of Outward Bound's UK centres; a four-day event at an activity centre close to London; and, for 10 pupils perceived to have 'gained the most' from the program, a three-week intensive course at Outward Bound's Ullswater centre in the Lake District. Pupils engaged in activities such as rock climbing, gorge

175 walking, high ropes courses, caving, sailing, hiking and rafting. The year concluded with an activity 176 day for all pupils and a celebration/award event held at HSBC's head office in London.

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The Sky Sports Living For Sport (SSLfS) programme is an ongoing national initiative 178 (commenced September 2003) within the UK that encourages schools to design and run school-led projects within a broad framework developed by the programme sponsors (Sky Sports^{iv}) and organisers 179 180 (the Youth Sport Trust^v). The core aim of the programme is to identify pupils who are having problems 181 with one or more aspect of their school life (e.g. with behaviour, attendance, confidence, being 182 bullied/bullies) and to facilitate their re-engagement in education through participation in physical 183 activities. The initiative is intended to be flexible, and teachers organising SSLfS projects within their 184 schools can select any activity, or combination of activities for their pupil group. Indeed, teachers are 185 encouraged to work with pupils in the selection of activities, and in setting individual and group goals. 186 The list of activities that has been undertaken within SSLfS programmes is extensive, including 187 traditional sports and games (e.g. football, basketball, badminton, swimming and hockey) as well as 188 recreational activities less common to the PE curriculum (e.g. yoga, ultimate frisbee, street dance, free-189 running and skateboarding) and outdoor/adventurous activities (e.g. rock-climbing, orienteering, 190 canoeing, sailing and rope courses). SSLfS programmes can last from one term to one academic year 191 and group sizes vary from school to school, although groups of 8-16 pupils are most common. Each 192 SSLfS programme culminates in a sport event (often a tournament or competition organised by the 193 project pupils), and completion of the 'course' is marked by some form of celebration event (e.g. an 194 awards evening, an out of school visit or a group meal).

195 Despite their obvious differences, the two programmes shared key design features that governed 196 the choice of feasible research methods, and led the evaluation team to adopt almost identical 197 evaluation strategies within a common evaluation framework. Anderson (2004) notes the proliferation 198 of foundation and charitable organisations that seek to develop community based social programs to 199 meet their missions, commenting that 'These initiatives often have ambitious goals, and so planning 200 specific on-the-ground strategies to meet those goals is difficult' (p. 2). Similarly, Shiner et al., (2004)

argue that youth social engagement/re-engagement programmes are notoriously difficult to evaluate because sponsors have not thought through why or how an intervention would work, and with whom under what conditions. Indeed, Rossi, Lipsey & Freeman (2005) argue that before even attempting an evaluation of programme impact, researchers should check whether the program objectives are 'sufficiently well articulated' (p. 23) to make it possible to evaluate impact. The two programmes reported in this paper offer an illustration of these methodological issues and challenges.

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Evaluation Framework

208 Rossi, Lipsey & Freeman (2005) recognise the 'continually changing decision-making milieu of social 209 programs' (p. 22) as a key challenge for evaluators. They argue that researcher flexibility is a key 210 requirement because 'Social programs are not research laboratories... evaluators must expect to be 211 buffeted about by forces and events beyond their control' (p.23). As was noted above, one of the most 212 attractive features of both programmes was the flexibility they offered schools and teachers in selecting 213 pupils and tailoring programme activities to meet their needs. In other words, professional judgement 214 was the key factor determining which pupils should be involved in the programmes. This flexibility, 215 however, also constituted the major challenge facing the evaluation team, and it resulted in the design 216 of a multi-layered evaluation strategy using qualitative research methods built largely around individual 217 pupil profiling. Between 2003 and 2007 (years 1 to 4 of each programme), over 10,000 young people 218 participated in either the HSBC/OB project or SSLfS programme. Impact data have been collected on 219 over 50% of all SSLfS pupils engaged in the programme nationally (n ~ 4700) and 90% of HSBC/OB pupils from the five participating schools ($n \sim 540$). In the next sections, details on the design, methods 220 221 and participants are explained and are also summarised in tables for clarity (Tables 1 and 2).

222 Evaluation Design and Rationale

House (2005) points out that although there has been a growing faith in large scale evaluations using only experimental methods, these have rarely delivered what they promise. Instead, he suggests evaluation studies should be 'methodologically ecumenical' and that they often need to adopt a different concept of causation:

Social causation is more complex than regularity theory suggests. Even with the same
program, there are different teachers at different sites who produce different results. We might
try to control for the teachers, but there are so many variables that might influence the
outcomes, the researchers cannot control for all of them.

231 This certainly seems to reflect the problems faced in these two evaluation projects. House also argues 232 that programme theory can be a useful approach to the evaluation of social programmes, and that there 233 is a need for theories that are applicable to individual programmes, rather than seeking grand social theories. In similar vein, Rossi, Lipsey & Freeman (2005) point out that 'conducting social research at 234 235 a high scientific standard generally requires resources that exceed what is available for evaluation 236 projects' (p.24) and that was certainly a problem in these evaluation projects. Rossi et al. also argue 237 that such issues do not mean researchers can 'blithely dismiss scientific concerns in evaluation' (p. 25) 238 and it was the need to do credible, defensible research that led to the eventual evaluation design in this 239 case. Thus, the three dimensional evaluation of the HSBC/OB and SSLfS programmes centred on 240 individual pupil profiling, school-level case studies and the creation of programme Logic Models. 241 There are many respects in which this design strategy can be criticised, and it was certainly labour 242 intensive. On the other hand, as other evaluators have found, compromises are often required in the 243 evaluation of complex social programmes.

244 *Pupil profiling*: the purpose of the pupil profiles was to capture information on teachers' 245 professional judgements in order to create a baseline profile on each pupil, and to record progress from 246 that profile. Thus, teachers were asked to record reasons for pupil selection and to support their reasons 247 with 'hard' school data (e.g. absenteeism statistics; behaviour reports) where they were applicable and 248 available. Teachers were then prompted to report on pupil progress from the baseline immediately after 249 the programme (positive, negative or no change from baseline) to determine 'distance travelled' 250 (Crabbe, 2005b). In the case of the HSBC/OB project, updates were also requested half way through 251 the project year. They were further prompted at 12, 24 and 36 months after programme completion to

determine whether any changes recorded immediately after engagement in the programme weremaintained.

Case studies: in addition, collective case studies (Stake, 2005) were conducted in each
evaluation project at the school level to supplement the data from pupil profiles (Yin, 1984). The main
research activities in these case studies were observation of programme activities, interviews with key
adults and youth participants, focus group discussions, open-ended surveys, semi-structured reflective
journals, and structured feedback sheets (e.g. Oliver & Lalik, 2001; Clark & Moss, 2001; Harper,
2002).

Logic Models: models were developed for each programme to identify the ways in which the
 programme sponsors sought to achieve their aims through the programme activities. (Kellogg
 Foundation, 2001). 'Logic models' can clarify and make explicit foundational features of a programme,
 and can provide a useful communication framework for evaluators and sponsors, especially where aims
 are rather nebulous and the paths to outcomes unclear:

The program logic model is defined as a picture of how your organization does its work – the theory and assumptions underlying the program. A program logic model links outcomes (both short- and long-term) with program activities/processes and the theoretical assumptions/principles of the program (p.iii).

269 An example of an early Logic Model for the HSBC programme is provided in Appendix A.

Finally, mindful of the need to assure the quality of the qualitative research design the evaluators adopted a framework developed by the National Centre for Social Research (Spencer et al.,, 2003) that focuses on the outputs of qualitative inquiry and helps consumers of the research to make judgements about its quality. In evaluation reports to the sponsors, therefore, checklists were provided drawing upon the appraisal questions and quality indictors in the framework, including indicators on research design, ethics, data analysis and reporting findings.

276 Data Collection

277 This paper draws upon data from interviews, focus groups, journals and individual pupil profiles 278 generated by teachers, mentors and pupil participants. Reference is made in the discussion to the use of 279 Logic Models. The data collection process was similar in each programme, although the lower pupil 280 numbers on the HSBC/OB programme, and the sustained relationship with five schools, facilitated 281 greater depth. The higher number of schools and pupils involved in the SSLfS project resulted in some 282 adaptation to data collection in order to manage the volume of data. In each section below, a table 283 summarising the research undertaken is followed by a more detailed explanation of data collection 284 procedures/features and an indication of where further information on each individual programme can 285 be found.

286

287 **HSBC/OB**:

288 [INSERT TABLE 1]

At the beginning of the programme, individual pupil baseline profiles were generated for each pupil using teachers' professional judgements via open-ended surveys. 400 full profiles were collected over 4 years. Teachers were asked to give their reasons for pupil selection and any illustrative examples or data to support their selection;

- Update profiles were collected at intervals after the first main programme activity (6, 12, 24 and 36 months) again using an open-ended survey. Teachers were asked to comment on each pupil's current status as well as indicate the direction of any perceived change from the baseline level (i.e. positive, no change or negative);
- The five partner schools were also evaluated as case studies in each year. In each case, data
 were collected through observations of project activities, interviews with lead teachers and,
 where possible, senior management staff and focus groups with participating pupils. The
 evaluators were also invited to programme steering meetings, which facilitated regular contact
- 301 with the teachers and sponsors;

- Data from pupils on project involvement and any perceived benefits were also generated via
 pupil journals, open-ended surveys and focus group discussions.
- 304 For further information on this programme and its evaluation see Armour & Sandford (2004, 2008),
- 305 Sandford, Armour & Duncombe (2008) and Sandford, Duncombe & Armour (2008).
- 306
- 307 SSLfS:

308 [INSERT TABLE 2]

309 In year one of the programme, individual pupil baseline profiles were generated for each pupil • 310 using teachers' professional judgements via open-ended surveys. Teachers were asked to give 311 reasons for pupil selection and provide any available supporting school data (e.g. attendance or 312 behaviour records). In subsequent years, data from the year one responses were used to create a 313 list of potential reasons for selection, making data collection and analysis easier. Teachers were 314 offered space to include additional reasons or comments. Where no supporting data for 315 selection were available, teachers were asked to use a 5 point professional judgement rating 316 scale to identify a pupil's starting point. This was a compromise measure to account for the fact 317 that most reasons for selection could not be supported by 'hard' data (i.e. the pupil was 318 'withdrawn'; struggled to make friends; lacked confidence etc).

- Update profiles were collected at the end of the project. Where no 'hard' data had been
 provided at the outset, teachers were still able to update their professional judgement rating
 scale.
- Up to 20 school-level case studies were undertaken in each project year. New case study
 schools were selected each year to ensure geographical spread, range of school types and
 project activities, and to focus on emerging issues. In year four, 18 sustainability case studies
 were also undertaken. In each case, data were collected through the observation of project
 activities, interviews with key teaching staff, and interviews or focus groups with participating
 pupils.

328 A sustainability of impact survey was undertaken in years 2, 3 and 4 of the project, and was 329 disseminated to all schools who had participated in previous years. For pupils who were 330 recorded as showing positive impact immediately after the project, teachers were asked to 331 comment whether or not, based on their knowledge of the pupils, they had maintained this 332 improvement since project completion (i.e. periods ranging from 12, 24 and 36 months). 333 Teachers were also asked to comment on the reasons for any sustained improvements. 334 Further information on this programme and its evaluation can be found in Armour et al., (2007), 335 Sandford, Armour & Duncombe (2008) and Sandford, Duncombe & Armour (2008).

336

337 Data Analysis

338 As was noted earlier, the Logic Models were used to ensure clarity and a shared understanding 339 between the programme sponsors and the evaluators about the ways in which the programme activities 340 were designed to meet the programme aims. The data from pupil profiles were analysed using 341 descriptive statistics (i.e. the frequency of a particular response or the percentage of the total data set 342 that this represented). The different project structures resulted in some differences in analysis. In 343 HSBC, individual pupil profile data were summarised to show the number and percentage of pupils 344 who had improved from, maintained, or dropped below their baseline profiles at 6, 12, 24 and 36 345 months following the commencement of project activities. It was these latter updates that provided the 346 sustainability data.

In the SSLfS project, the data from pupil profiles were analysed according to the area of improvement identified by teachers (behaviour, attendance and self-esteem). Data were collated and a mean was calculated for the baseline period and compared with that for the project period. This method of analysis was used for teachers' data in the case of both professional judgements, in the form of rating scales, and where specific school statistics were available, for example attendance rates or number of behaviour referrals. Interestingly, the findings were almost identical whether either measure was used. Data from the sustainability of impact survey were collated to indicate the number of pupils who

showed an improvement immediately after project completion, and who were perceived by teachers tohave maintained this improvement in subsequent years.

356 Data from the school case study visits for each programme (which took the form of fieldnotes, 357 interview transcripts and written feedback responses) required a more detailed qualitative analysis. 358 These data were collated and then analysed thematically, using an approach similar to the constructivist 359 grounded theory outlined by Charmaz (2000). Unlike more traditional, structured versions of grounded 360 theory (Glaser & Strauss, 1967; Strauss & Corbin, 1998), this approach facilitated active coding and 361 offered the opportunity to focus on participants' thoughts and feelings, and to identify differences. 362 Thus, themes were constructed, in part, around responses on core project aims or issues of interest 363 generated through discussions with project participants (teachers, pupils, sponsors etc.). There was also 364 the opportunity for new themes to be identified and explored. A worked example of the data analysis 365 processes can be seen in Appendix B.

366 Limitations in Evaluation Design

367 As was noted earlier, the authors acknowledge a number of limitations to the evaluation design. 368 Similar to the experiences of other evaluators, it was found that both programmes had been designed 369 and were underway before the evaluators were commissioned (which explains the need to generate 370 Logic Models to clarify designs and aims). In addition, the programme aims were very broad, seeking 371 high and lasting impacts on large numbers of young people; the research budget was low in the context 372 of the extensive scope of the aims; there was no standardisation in the selection procedures for the 373 youth participants; teachers/staff had considerable flexibility at each stage of the programmes (which 374 was a key attraction for participating schools); there was no possibility to establish a meaningful 375 control group; and there were high sponsor expectations for meaningful data within tight reporting 376 deadlines (DfEE, 2000; Burton, 2006). Indeed, it is worth noting that, as they worked with schools over 377 time, the sponsors came to understand school needs better. This resulted in a conundrum: the 378 programmes were made more flexible and responsive to meet the needs of teachers and schools which, 379 in turn, made it increasingly difficult for the evaluators to provide robust evidence of impact.

380 Given these limitations, it could be argued that robust evaluation was impossible. On the other 381 hand, the evaluators had the opportunity to design a research methodology that could attempt to 382 accommodate the flexibility inherent in the programmes, the variability inherent in the different schools 383 involved and the limited time teachers were able to dedicate to research. In addition, the longitudinal 384 funding facilitated data collection on large numbers of pupils that could be sustained over four years. 385

Findings

386 Although there are variations in the data from the HSBC/OB and SSLfS projects, the broad findings 387 regarding the nature of programme impact are remarkably similar. A discussion of the findings on 388 impact more broadly has been reported elsewhere (see Sandford, Duncombe & Armour, 2008). The 389 focus of this paper will be upon the factors identified by programme participants (teachers, mentors and 390 pupils) as contributing to the sustainability of impact. This can, therefore, make a contribution to the 391 knowledge base on programme design features and processes that are most likely to lead to sustained 392 positive impact from physical activity interventions. In the first section below, the findings from the 393 pupil profiling process are reported, followed in the second section by explanatory findings from the 394 school case studies.

395 Sustained Impact: The pupil profiles

396 As might be anticipated, collecting data on sustained impact over a period of time is challenging given 397 that pupils are no longer centrally involved in programme activities. Moreover, there is likely to be 398 little information on what other activities pupils have engaged in since programme completion for, as is 399 often the case, research funding ends with the end of the programme. This might explain the lack of 400 robust data on sustainability in such youth development programmes. As has been explained above, the 401 evaluation projects reported here were structured to (partially) overcome these limitations. Data 402 collection centred on the initial reasons teachers provided for pupil selection for the programmes, and 403 both initial and sustainability data updates were similarly focussed. In effect, this was the only element 404 of the programmes that had any consistency over time.

405 Although there were challenges in collecting sustainability data from schools, and the findings 406 should be read with caution, they are also interesting. For example, in year 2 of the SSLfS project 407 (2004-2005) teachers provided sustainability data for 67 pupils who had shown an initial improvement 408 from their baseline profiles. Of these, 94% were perceived to have maintained those improvements for 409 12 months. Similarly, in year 3 of the evaluation (2005-2006), 43 schools provided sustainability data 410 on 312 pupils, with approximately 90% maintaining positive improvements for 12 months. In year 4, 411 44 schools provided data on pupils who had demonstrated improvements and, similar to the findings 412 from the previous year, approximately 90% of these maintained those improvements for 12 and 24 413 months (see table 3). One school also provided data on 7 pupils who had completed the programme 36 414 months previously and it is interesting to note that the lead teacher believed that all of these pupils had 415 sustained their improvements for 3 years.

The sustainability data from the HSBC/OB project also indicate that many, although not all, pupils maintained positive improvements for up to 36 months after programme involvement. Indeed, when the data are combined for all three years, it can be seen that almost 70% of pupils retained their positive improvements from the teacher-reported baseline at the point of leaving school (at 36 months). This is illustrated in table 4, which shows the combined data for pupils involved in Years 1, 2 and 3 of the HSBC/OB project.

422 [Insert Table 3]

423 [Insert Table 4]

The data presented in tables 3 and 4 indicate that, where the SSLfS programme had an initial impact on the young people who participated, this impact was likely to be sustained for 12, 24 (and potentially 36) months. Likewise, in the HSBC/OB programme, positive improvements were being maintained by, on average, well over 50% of pupils up to 24 and 36 months after the programme activities had ended. These findings, then, appear to support the notion that sport/physical activity programmes can have a positive long-term impact upon participants. However, while the pupil profiles provide an indication of impact, the case study data provide important information on the mechanisms most likely to lead to

431 sustained impact. As might be expected, these data reveal a complex set of processes leading to the432 findings.

433 Sustained Impact: The case studies

434 In case studies, teachers/school staff were interviewed to find out what may have helped the 435 young people to maintain positive improvements. A number of similar factors were identified in both 436 programmes and they highlight the significance of social processes around physical activity 437 interventions; indeed, the social aspect of programme involvement was reported as being pivotal. Thus, whereas sport and physical activity were used as a vehicle for both projects, they themselves were not 438 439 perceived (by teachers) to be as significant in terms of impact on pupils as the opportunities that were 440 provided for social interaction and building positive relationships. Six common themes on the 441 conditions required for sustainable impact resulted from the data analysis process. These six themes are 442 reported individually in the next section, supported by illustrative data from both programmes. As was 443 noted in the introduction, the purpose of the paper is twofold: to identify the themes and to illustrate the 444 complex ways in which they interacted to contribute to sustained impact. The latter purpose is 445 undertaken in the discussion.

446 i. Matching pupils' specific needs with programme objectives

Within both programmes, a common response from teachers was that it was important to select the 'right' pupils to participate. Within the SSLfS programme, for example, some teachers suggested that the activities simply did not work if the 'wrong' pupils were chosen or if too many of the pupils had dominant personalities or were very disruptive. Conversely, it was often stated that programmes had been successful when they were designed to be appropriate to the needs of a particular group of pupils:

- 452 They need to be students that can work together. And they need to be students ideally with
- 453 similar issues or certainly with similar aspirations, because otherwise, you tackle activities

454 *that some of them don't want to engage in (Lead teacher, SSLfS).*

455 Similarly, within the HSBC/OB programme, teachers commented that they considered a number of456 factors in their selection of pupils, including not only their potential to gain from the experience but

- 457 also their capacity to engage with the process. In this case, the nature of the activities was largely
- dictated by the structure of the programme, so teachers noted that they had to bear this in mind whenidentifying their pupil group:
- 460 *I know there are some pupils who would benefit from some kind of programme, but this is*461 *not the right one for them (Teacher, HSBC/OB).*
- 462 The first point to note, therefore, is that participant selection was a complex process that relied on
- teachers' professional judgments about both the programme *and* the needs of individual pupils.
- 464 Like many other professional judgments, the decision-making process seemed to be based on a set
- 465 of factors rooted in experience and expertise.
- 466 ii. Locating project activities outside of the 'normal' school context
- Whilst SSLfS projects varied considerably, with schools being free to select any sport/physical activity
 they deemed appropriate, the programmes that incorporated off-site or 'new' activities were
 particularly valued:
- 470 *I think it was the off-site nature (that) was very important...the opportunity to do a different*
- 471 *activity (not) part of the bread and butter of the PE curriculum... it makes the programme*
- 472 *more attractive... and ensures that they turn up week after week (Lead teacher, SSLfS).*
- 473 Likewise, the off-site and residential nature of the HSBC/OB programme was identified as a significant
- 474 feature in terms of engaging and motivating pupils, particularly as the disadvantaged background of
- 475 many of the selected pupils meant that they had rarely, if ever, been away from home:
- 476 They (the pupils) rarely travel out of Tower Hamlets (an area of London), very, very
- 477 rarely. So, you know, going to Wales is a big thing for them... I mean, some of them have
 478 never seen the sea before (Teacher, HSBC/OB).
- 479 In both cases, the suggestion from teachers was that taking pupils out of the school context helped them
- 480 in a number of ways; e.g. by increasing the perceived importance of the programme, engaging their
- 481 interest, raising the scale of the challenge or by distancing them from aspects of the school environment
- 482 that were contributing to their personal difficulties.

483 iii. <u>Working closely with pupils to choose activities, set targets and review progress</u>

The importance of giving young people a sense of belonging and ownership in programmes aimed at promoting positive youth development, and, in particular, of involving them in key decisions relating to their participation is widely reported. These sentiments were echoed by teachers from both HSBC/OB and SSLfS. For example, a number of SSLfS activities incorporated time for planning, reviewing and setting targets with pupils. There were examples where teachers would set targets, which the pupils had to achieve in order to be allowed to participate in activities the next week. Furthermore, teachers felt that giving ownership of the programme to young people was important:

491 The pupils loved planning and taking part in activities of their choice (Lead teacher,

492 *SSLfS*).

Within the framework of the HSBC/OB programme, pupils were not able to be involved in planning the main activities, but in the residential Outward Bound sessions there was a strong focus on pupils taking responsibility for themselves and their group (e.g. in terms of arriving for activities on time and with the appropriate equipment). Moreover, at the end of each day, pupils were asked to reflect on their achievements and consider their goals for the following day by recording them in a personal journal. Teachers commented that they felt this had been valuable for the pupils:

499 I loved the way that they summarised what they'd done every evening, they had a focus for

500 the day, and their mentors were reinforcing that as well as instructors (Teacher,

501 *HSBC/OB*).

In each case, involving pupils in the planning and review of programme activities was perceived to adda great deal to the experience and to contribute to the degree of positive impact.

504 iv. Establishing positive relationships between programme leaders, mentors and pupils

505 The importance of the role of an adult 'mentor' has been stressed in numerous contexts. This was also

506 identified strongly by the different groups of participants involved in both programmes. For example,

507 both teachers and mentors commented that working closely with pupils had helped to establish good

relationships and contribute to the pupils' development:

| | Running head: PYD, physical activity interventions and sustained impact |
|-----|--|
| 509 | One of my students said, 'Mrs Smith has changed my life'. This was completely out of the |
| 510 | blue I am not in this job to receive pats on the back, but I was very touched by this |
| 511 | spontaneous remark from a student with Aspergers (Teacher, SSLfS). |
| 512 | |
| 513 | They appear to get so much from it from interaction with their peers, but more significantly |
| 514 | with other adults (e.g. mentors) it enables them to see the human side of adults, and |
| 515 | enables them to engage with the adults on an 'adult' level, rather than just as authority |
| 516 | figures (Mentor, HSBC/OB). |
| 517 | In addition, pupils indicated that they had enjoyed working with teachers and mentors, and had |
| 518 | appreciated being able to get to know them as people rather than just as the aforementioned 'authority |
| 519 | figures'. For example: |
| 520 | I think the mentors were absolutely terrific, they helped us do many things, and not only |
| 521 | that, they became our friends (Pupil, HSBC/OB). |
| 522 | Whilst the role of the teacher or mentor was clearly important, however, data from the research projects |
| 523 | also identified that strong relationships between participating pupils is also a factor that may lead to |
| 524 | sustained improvements: |
| 525 | They used to talk in the mini bus about things they had done, and have a little sing song on |
| 526 | the way home, and just things that they normally wouldn't experience because they |
| 527 | wouldn't be part of a team in our school (Lead teacher, SSLfS). |
| 528 | In addition, it was also noted that, whilst support from adults during the project was important, |
| 529 | continued support was essential in helping young people to maintain improvements: |
| 530 | I think it is down to maintaining the contact, maintaining the links, by not disappearing. At |
| 531 | the end of the project, we didn't disappear, we were still there so the relations that we built |
| 532 | up could carry on (Lead teacher, SSLfS). |
| 533 | |
| | |

| 534 | It's actually an issue, what is our role of 'mentor' going forward? I think there is more to |
|-----|--|
| 535 | it than just being there as another aide to make sure that the activities happen you've got |
| 536 | to keep contact with the young people (Mentor, HSBC/OB). |

537

538 One thing... is this longevity thing, and that is very important, in fact if you didn't continue 539 it's worse than if you didn't start in the first place because you get to the point where there 540 is an alliance and there is a relationship and if that suddenly disappears from both sides 541 there is going to be a potential vacuum after this (mentor, HSBC/OB). 542 The key point to be noted from this finding, therefore, is the multiple levels on which the 543 development of positive relationships is desirable. This has clear implications for programme 544 design (and cost). 545 v. Giving pupils the opportunity to work with (and for) others 546 A large proportion of pupils were selected to participate in both the HSBC/OB and SSLfS programmes 547 because of poor social skills, poor communication skills or perceptions of low confidence. It is, 548 perhaps, unsurprising, therefore, to find that many teachers stressed the importance of providing 549 opportunities for pupils to work collaboratively. The physical activity setting offered good 550 opportunities for this aspect: 551 They are brilliant now. It's just because everything we've done has been based on 552 teamwork. Because there's only 8 of them, they've had to co-operate, they've had to work 553 together and they are doing it really well (Lead teacher, SSLfS).

554

(Abdul) is probably the greatest success story from our school. He was previously shy,
underachieving and on the receiving end of some bullying. Now he's confident, achieving

- 557 above expectations and developing some very good social skills (Teacher, HSBC/OB).
- 558

| 559 | It's been good for them to meet people they wouldn't normally mix with I think. You could |
|-----|--|
| 560 | see them eyeing each other up on the first activity day, but I think some of them are really |
| 561 | good friends now and they've learnt from each other, you know being from different |
| 562 | backgrounds and things (Mentor, HSBC/OB). |

563

- The pupils also acknowledged this and appreciated the chance to work with each other, and with groupsof other young people with whom they did not normally interact:
- 566 ... the fact that I've never worked with special needs children, it was a first for me and I
 567 could do it (Pupil, SSLfS).
- 568 Moreover, teachers within the HSBC/OB programme also noted that working with pupils from other
- schools was important in helping young people meet others from different cultures and backgrounds:
- 570 It has been really good to work with the other schools, particularly as this is a boys' school
- 571 with a predominantly Bangladeshi population. They have learnt a lot from being in mixed
- 572 groups, especially with the girls. It was so far removed from their day to day experience in

573 school (Teacher, HSBC/OB).

- 574 These comments highlight, once again, the significance of social interaction within these youth
- development programmes, and reinforce findings from within the sport/physical activity literature thathighlight this as an essential factor in bringing about positive and sustained impact.

577 vi. <u>Structured pathways to enable sustained involvement in programme activities or complementary</u>
578 activities

579 One of the key points raised by teachers in both programmes was the need to give thought to what 580 would happen to the young people once the activities had ended. This reflects concerns that have been 581 raised in the literature over the short-lived nature of initiatives targeting disaffected or disadvantaged 582 youth. In both programmes, teachers commented that, in order to maintain positive impact, it was

583 important to establish alternative 'pathways' for pupils once programme activities had ended. For

584 example:

| 585 | This is the other thing with the project. I mean where do you go after that? You know, you |
|-----|---|
| 586 | do your ten weeks their behaviour was better from the beginning but there is nothing |
| 587 | after that actually for them to be (involved in) There's no incentive (Lead teacher, |
| 588 | SSLfS). |
| 589 | |
| 590 | It is becoming clear that those students with regular follow-up input are continuing to |
| 591 | achieve the most (Teacher, HSBC/OB). |
| 592 | |
| 593 | We've found it useful to promote DofE [national personal challenge award] to our HSBC |
| 594 | pupils, it's just a way of allowing them to keep going with some of the activities. I think a |
| 595 | lot of this year's group (Year 3) are thinking of doing it next year (Teacher, HSBC/OB). |
| 596 | |
| 597 | Findings from the HSBC/OB project also indicate that the young people who progressed to the later |
| 598 | stages of the programme (i.e. were selected for weekend residential and three-week residential events) |
| 599 | were more likely to maintain an improvement from baseline than those who did not. Moreover, |
| 600 | teachers noted that pupils who sustained their positive development after completing their activity year |
| 601 | were those who went on to engage in alternative programmes, initiatives or activities e.g. the Duke of |
| 602 | Edinburgh Award Scheme, Young Enterprise and business mentoring schemes ^{vi} . It was noted that these |
| 603 | activities allowed pupils to transfer the skills learnt through their programme involvement (e.g. |
| 604 | teamwork, communication and leadership skills) to alternative situations, and to develop them further, |
| 605 | and that this allowed for their continued development. In the next section, these six themes are |
| 606 | considered both in combination and in the context of the wider literature. |
| 607 | |
| 608 | Discussion |
| 609 | Recognising both the strengths and the limitations of the evaluation research design, it can be argued |
| 610 | that the findings reported above can make a contribution to the existing research. Individually, the six |

611 mechanisms identified as leading to successful programmes in these two evaluations echo some of the 612 findings from previous research (see Hellison, 1995; Ennis 1999; Donnelly & Coakley, 2002; Sandford 613 et al., 2006). However, developing an understanding of how they worked in combination, and taking 614 into account the detail and duration of data collection, it is possible to see ways in which these findings 615 provide important insights into the sheer scale of pre-planning that is required in sport/physical activity 616 programmes to maximise the potential benefits for disengaged/disaffected young people.

617 It should come as no surprise to find that allowing teachers to match pupils' specific needs with 618 the programme objectives was an important factor in programme success. This is endorsed within the 619 existing sport/physical activity literature (DfES, 2004; Sandford, Armour & Warmington, 2006). In 620 these programmes, teachers were given the freedom to appraise the activity on offer and to select pupils 621 they felt would 'benefit'. Thus, teachers were able to take into account the proposed activity, any key 622 local contextual factors, and a range of pupil needs. The teachers were also involved in the programme 623 activities with the pupils, and this was clearly a key factor in their success. Coote, Allen & Woodhead 624 (2004) have argued that evaluators should make greater efforts to learn from the knowledge and 625 experience of practitioners, and that methods should be found to achieve this. Certainly, in this 626 evaluation there appeared to be few other options available.

627 Yet, the first theme is clearly and intricately linked to the second: locating project activities 628 outside of the 'normal' school context. Donnelly and Coakley (2002) argued that programmes aimed at 629 promoting social inclusion must provide 'safe spaces' for participants, and Peacock (2006) noted that 630 evaluations of out-of-classroom learning confirm such an approach can promote positive attitudes, 631 arouse interest and improve behaviour. It has also been noted, however, that positive learning outcomes 632 outside of the classroom are not a 'given' and that there is a need for teachers/educators to 'consistently 633 aid students to understand how what they experience in the outdoor classroom connects to, extends, 634 and reinforces their in-school work' (Dillon, Morris, Rickinson & Scott, 2005, p.5). In these two 635 programmes, lead teachers were involved with the pupils throughout the programme activities, thus

they were able to ensure the learning environment was appropriate, and could make links to the in-school context.

638 The third theme - working closely with pupils to choose activities, set targets and review 639 progress - is widely endorsed in the PYD literature. For example, Donnelly & Coakley (2002) and 640 Riley & Rustique-Forrester (2002) have argued for the importance of giving young people a sense of 641 belonging and ownership in such programmes and, in particular, of involving them in key decisions 642 relating to their participation. In many ways the SSLfS programme was a model in this respect, given 643 that each year, participating groups were able to select activities and, as long as they were feasible, they 644 could be undertaken by young people. The funding provided by sponsors in this programme was not 645 extensive, but it did facilitate unusual and off-site activities making the participant group feel 'special'. 646 This is also one of the reasons why, over time, the selection criteria for this programme broadened 647 beyond pupils who had disruptive behaviour issues to include pupils who had other forms of perceived 648 need, based on disadvantage or more passive forms of disaffection.

649 The fourth theme, establishing positive relationships between leaders, mentors and pupils, was a 650 key feature of both programmes although it operated in slightly different ways in each. The importance 651 of the role of an adult 'mentor' has been stressed in numerous contexts within the physical education, 652 informal education and mentoring literature (e.g. Martinek & Hellison, 1997; Richardson & Wolfe, 653 2001; Reid, 2002) and it has been suggested that having someone to turn to who is more than 'just' a 654 teacher is important for some young people (Bennetts, 2003; Vulliamy & Webb, 2003). In the 655 HSBC/OB programme, one of the key features was the training of adult mentors from within HSBC 656 staff to work with young people on programme activities. Although this was not always a 657 straightforward process, some of the mentors became fully involved and acted as mentors for several 658 years. In these cases, the feedback from pupils suggests this was one highlight of the whole 659 programme. This mirrors findings from the physical education and mentoring literature that identifies 660 the importance of building sustained relationships between adult leaders and young people (e.g. 661 Golden, Lines & Sims, 2002). In the SSLfS programme, however, lead teachers (usually physical

education teachers) were most closely involved with pupils over time. The programme activities
offered teachers the opportunity to work with a small group of pupils in a sustained way in an unusual
learning context and this, too, offered important opportunities to develop positive adult/young people
relationships.

666 In addition to developing positive relationships with adults, these programmes offered young 667 people the opportunity to work with and for other young people (theme five). Martinek and Hellison 668 (1997) have argued that 'the nature of physical activity – active, interactive, highly emotional – 669 certainly provides the possibility of exploring and practising values, teamwork, goal-setting, peer-670 teaching, conflict resolution, and so on' (p.44). In addition, Crabbe (2006a); Petitpas et al., 2008 and 671 Coalter (2000) have all highlighted the importance of wider personal and social development goals in 672 sport/physical activity programmes. In both programmes, social interaction was a key feature, 673 including offering young people the opportunity to work with younger pupils (SSLfS) and to interact 674 with pupils from different schools (at the OB centre and post-activity celebration events in HSBC/OB). 675 However, this feature on its own would have been less successful in these programmes had other 676 features not been in place; for example, appropriate selection of pupils, an unusual but 'safe' context 677 for activities and positive relationships with the key adults.

678 The sixth feature that contributed to the reported success of these programmes was the 679 availability of structured pathways to enable young people to have sustained involvement in further 680 project or complementary activities. Concerns have been raised in the existing youth disaffection 681 literature about the short-lived nature of initiatives targeting disaffected or disadvantaged youth (e.g. 682 France, 2007; Morris et al., 2003; Long & Sanderson, 2001). There have also been calls for multi-683 agency approaches to tackling disaffection and promoting positive youth development, and for better 684 collaborations between key institutions, organisations and agencies (Steer, 2000; DfES, 2003c). What 685 can be learnt from these two programmes, however, is that for such strategies to be effective, schools 686 and teachers must be fully engaged in programme activities which, in turn, must be embedded in 687 schools in an appropriate way. This ensures that where young people develop potential interests as a

result of programme participation, an adult based at - or connected to - the school is available to
recognise that interest and nourish it by highlighting further opportunities. It should be remembered
that any positive impact seen immediately after relatively short interventions is likely to be tentative,
particularly where a young person has to contend with considerable personal problems or issues.

692 The final point to be made is that in the initial programme Logic Models (see Appendix A for 693 an example), the challenges inherent in linking the activities to the programme aims became apparent. 694 Sharing these models with the sponsors and in, the case of HSBC/OB, the lead teachers, led to 695 productive discussions about the ambitious nature of the aims, and provided an opportunity for teachers 696 to express their concerns that the aims were unrealistic. This, in turn, led to a more productive dialogue 697 between the HSBC/OB sponsors and the lead teachers. The sponsors reiterated that the programme was 698 essentially a philanthropic activity that sought to give young people a chance in life, aid their personal 699 and social development and encourage them to engage in education. Moreover, the teachers were 700 perceived as being actively engaged in the project as partners from whom the sponsors could learn. In 701 many ways, this was an ideal approach from which other sponsors and funders could learn.

- 702
- 703

Conclusion

704 As was noted at the beginning of this paper, there is a strong belief in the potential for physical 705 activity/sport participation to bring about positive benefits for young people. Certainly, within the UK, a raft of recent policies/strategies^{vii} can be seen as evidence of a prevailing faith in the ability of 706 707 physical activity, sport and, indeed, physical education, to contribute positively to young people's 708 positive personal development and facilitate social inclusion (DCSF, 2005; DCMS, 2007; Sandford, 709 Duncombe & Armour, 2008). Moreover, the awarding of the 2012 Olympic Games to London has 710 added weight to such beliefs and is at the heart of expectations that a broad youth legacy (physical, 711 social and economic) can be achieved through structured physical activity/sport interventions (DfES, 712 2005; Sandford, Armour & Duncombe, 2010).

Despite strong convictions regarding the potential of physical activity/sport participation to reap benefits for young people, there has, however, been a relative lack of detailed information regarding the mechanisms by which physical activity/sport interventions lead to positive outcomes (Coalter, 2000; Bailey, 2005; Sandford et al., 2006). The data reported in this paper offer some interesting insights into these mechanisms but, more importantly, into the complex ways in which they interact to maximise the

718 potential of sport/physical activity interventions.

719 The limitations of the data reported here have been acknowledged. Flexibility, responsiveness 720 and the privileging of the professional judgement of teachers were key attractions for schools and these 721 features contributed to the undoubted successes of these two programmes. At the same time, these key 722 features presented the researchers with some formidable challenges. Nonetheless, through a cautious 723 and realistic evaluation design, the researchers have been able to capture data on large numbers of 724 pupils over a four year period. The pupils engaged in different programmes that had very similar aims, 725 and so it was feasible to employ a common evaluation strategy centred on developing Logic models as 726 a communication tool, and drawing data from individual pupil profiling and school-level case studies. 727 Within its very real limitations, therefore, the data can offer helpful insights into the ways in which six 728 interlinked mechanisms can lead to sustained positive impact from sport/physical activity interventions.

i The PESSCL (Physical Education School Sport Club Links) strategy was launched by the UK government in 2002 and saw significant funding (£459 million) invested in physical education and school sport. The NOPES (New Opportunities for PE and Sport) initiative also saw significant investment (£751 million) in PE and sport, supported by lottery funding. Positive Futures is a national social inclusion project in the UK that uses various activities, including sport, to engage with socially marginalised young people.

ii HSBC in the Community is a sub-group of the global bank HSBC's corporate social responsibility arm, and has responsibility for promoting positive relationships with the local community.

iii The Outward Bound Trust is a global educational charity that has a long history (over 65 years) of using outdoor experiences and challenges to facilitate young people's development.

iv Sky Sports is the dominant subscription television sports brand in the United Kingdom and Ireland and is the current sponsor of the 'Living For Sport' programme.

v The Youth Sport Trust was established in 1994 and is an independent charity that has a focus on supporting, encouraging and developing young people through PE and sport.

vi The Duke of Edinburgh's Award is an achievement award for young people, in which they undertake a number of activities intended to promote personal and social development. There are three levels of award (bronze, silver and gold) and each includes physical, social, and community elements. Young Enterprise is a national education charity founded in

1963 to forge links between schools and industry, and business mentoring schemes are similar educational initiatives designed to equip pupils with a better understanding of career opportunities and develop their employability skills through regular meetings with volunteer mentors from local businesses.

vii Recent policies/strategies include PESSCL and NOPES (see endnote i), as well as PESSYP (the Physical Education and Sport Strategy for Young People, a successor to PESSCL), Every Child Matters and Youth Matters (for further information see www.dcsf.gov.uk/everychildmatters).

Acknowledgments

The authors would like to acknowledge that this paper forms part of two recent research projects: the evaluations of the Youth Sport Trust/Sky Sports 'Living For Sport' project and the HSBC Education Trust physical activity programmes. The authors are grateful for the support of these bodies, their continued interest in the evaluation research and their desire to facilitate wider academic learning.

729

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Tables

| No. of Participants | | Data Collection | Raw Data Produced | Data Analysis |
|---------------------|--|--|--|---|
| Year 1 | 146 pupils 8 teachers 18 mentors | <i>Teachers:</i>Individual pupil profilesInterviews | Interview/focus group transcripts Journal entries | <i>Quantitative Data:</i> Summative statistics of quantitative data (e.g. ratings |
| Year 2 | 149 pupils8 teachers15 mentors | <i>Pupils:</i> Individual journals Focus groups Structured feedback sheets (ratings scales, open-ended) | Profile comments Researcher field notes | relating to direction of impact for pupils). <i>Qualitative Data:</i> |
| Year 3 | 145 pupils7 teachers15 mentors | responses) <i>Mentors:</i> • Individual journals • Interviews | | Thematic analysis of qualitative data (e.g. pupil profile comments, interview transcripts, journal entries, field notes, |
| Year 4 | 146 pupils 6 teachers 10 mentors | Focus groups Additional data collection: Observation of activities Interviews with project sponsor / deliverer | | open-ended question responses). |

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7 Table 1: Evaluation Summary for the HSBC/OB Project

| | No. of Participants | Data Collection | Raw Data Produced | Data Analys |
|---|--|---|--|---|
| Year 1 (03-04) Year 2 (04-05) Year 3 (05-06) | Total:• 32 schools• 394 pupilsCase Studies:• 20 schools• 241 pupilsTotal:• 212 schools• 2318 pupilsCase Studies:• 22 case studies• 245 pupilsTotal:• 281 schools• 3523 pupilsCase Studies:• 10 schools | Teachers:• Individual pupil profiles (including rating scale responses and open- ended questions)• Sustainability of impact surveys• InterviewsPupils: • Focus groups• InterviewsAdditional data collection: • Observation of activities• Collation of relevant school data (e.g. behaviour logs, attendance records). | Interview/focus group transcripts Profile comments Rating scale data Researcher field notes | Quantitative Data: Summative statistics quantitative data (e.g. scales, school statist behaviour logs, atter records). Qualitative Data: Thematic analysis o qualitative data (e.g. profile comments, in transcripts, field not |
| Year 4 (06-07) | 95 pupils Total: 293 schools 4477 pupils Case Studies: 10 schools 118 pupils Sustainability Case Studies: 18 schools 22 teachers 17 pupils | | | |

888 Table 2: Evaluation Summary for the SSLfS Programme

| | Year 4 Findings | | | | | | | |
|---------------------|-----------------------|---------------|-----------------------------------|--|--|--|--|--|
| | No. of pupils showing | No. of pupils | % of pupils perceived to maintain | | | | | |
| improvements at end | | perceived to | improvements for ~ 12 months | | | | | |
| of the project. | | maintain | | | | | | |
| | imp | | | | | | | |
| | | 12 months | | | | | | |
| 12 months | 497 | 433 | 87.1% | | | | | |
| 24 months | 110 | 100 | 90.9% | | | | | |
| 36 months | 7 | 7 | 100% | | | | | |

Table 3: SSLfS: pupils showing sustained improvements (Year 4 Findings)

Teachers' perceptions of the number of pupils who, after showing an initial improvement at the end of engagement in the project (i.e. improvement in the issue for which they were selected, sustained that improvement over 12, 24 and 36 months.

NB these are different cohorts of pupils, and more schools were involved in the project each year.

| All Schools | Po | sitive Improvement | t from Baseline (% of | f pupils) |
|-------------|----------|--------------------|-----------------------|-----------|
| | 6 months | 12 months | 24 months | 36 months |
| Yr 1 | 68.4 | 71.4 | 65.4 | 56.25 |
| Yr 2 | 58.0 | 57.8 | 60.5 | 41.5 |
| Yr 3 | 47.7 | 61.0 | 45.5 | 83.0 |
| (All Years) | 58.0 | 63.4 | 57.1 | 69.6 |

Table 4: HSBC/OB: Pupils showing sustained improvements (Years 1, 2 and 3)

Table showing the number of pupils showing a positive change from baseline (as perceived by teachers) in Years 1, 2 and 3

of the HSBC/Outward Bound project. The total number of pupils showing a positive change from baseline is also shown.

The figures represent the number of pupils as a percentage of the total number for whom data were received.

Running head: PYD, physical activity interventions and sustained impact Appendix A Basic Logic Model for the HSBC/Outward Bound Project

| YOUR PLANNED V (i.e. what you are pla | WORK anning to do) | | | YOUR INTENDED RES (i.e. what you are expect | SULTS ing to happen) | |
|--|--|--|--|---|---|---|
| RESOURCES/INPUT i.e. elements/factors influencing your ability to do work (positive or negative) | | ACTIVITIES i.e. what you then do with your resources | | OUTPUTS i.e. the <i>direct product</i> of your activities | OUTCOMES i.e. the changes to participants' behaviour (as a result of the | IMPACT i.e. the fundamental changes in organisations, systems, communities etc. as a result of the programme |
| Finances Inter-personal networks People | HSBC funding HSBC-OB relations HSBC-school relations HSBC link Out. Bound Link Instructors (Inst) School staff (Staff) Mentors (Ment) | Activities: Book facilities Arrange evaluation Arrange steering group meetings Select schools Select young people Launch/Closure days | Led by: OB HSBC HSBC HSBC School staff OB | Programmes developed Programmes/events run: Launch day Weekend course Classic course Follow-up activities | Young people are re- engaged Decreased disaffected behaviour Increased community involvement Young people as role | Young people as role models in the community Increased academic achievement Mentor relations with schools |
| Facilities Equipment | Outward Bound Centres Schools HSBC HQ | Weekend course event Classic course event Follow-up activities | OB OB OB Mentors and school staff [NB. No clear indication of who takes the lead here] | | [different people in the partnership may have different ideas here] Also changes for: HSBC, OB, Teachers, Mentors etc. | OB corporate relation |

Running head: PYD, physical activity interventions and sustained impact

904 Appendix B

905 Illustrative Example of the Data Analysis Process: Case Study Data

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| Process | Raw Data | Initial Review of Data | Coding / Memo Writing | Identifying Points of Commonality | Generation of Themes |
|--|---|--|---|---|--|
| Explanation | Collate all raw data Interview data (transcripts) Journal entries Profile data Researcher fieldnotes | Scan through the data and highlight points of immediate interest (considering perceived relevance to the research questions or project aims/objectives). | Review the highlighted data and begin to identify categories or codes by picking out key words/phrases. Alongside, make notes (memos) to explain the identification of codes. | Review the codes (and associated memos) and begin to make links between them. Also identify links between the data and literature, and different cohorts of data. | Group the codes / categories into clusters (themes) according to points of commonality. |
| Illustration [from HSBC/OB project] | Alan (teacher) commented that a lot of his pupils seemed to do quite well initially as a result of taking part in the project, but he also said that those who continued to show improvements (e.g. in confidence and ability) were the ones who were motivated enough to get involved in other things like DofE and Young Enterprise. [researcher fieldnotes] | lot of pupils seemed to do quite well initially those who continued to show improvements were motivated enough to get involved in other things | Continued Involvement Important e.g. " those who continued to show improvements were motivated enough to get involved in other things" [Memo: highlights the perceived need for pupils to keep involved in similar activities if improvements aren't to be temporary] | Suggests that pupils need further opportunities to use, apply and develop skills acquired through initial project involvement. Pupil focus group data (e.g. school E) also supports this. Links to literature on transferability of skills (e.g. Holt et al. 2008) | <i>Key Theme</i> Structured pathways to enable sustained involvement in project activities (or complementary activities) are important |

907 Illustrative Example of the Data Analysis Process: Pupil Profiles

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| Explanation | Collate raw data (teacher feedback forms) | Identify data relating to numbers of pupils | Calculate the percentage of total pupils showing particular types of improvements (e.g. positive/negative) | Present Findings |
|---|---|--|---|--|
| Illustration [from SSLfS project - Sustainability of Impact Forms] | Teachers were asked to provide data for the number of pupils who showed initial improvements and for how many sustained these improvements over time. | Figures were extracted for pupils who had finished their projects 12, 24 and 36 months ago. | Total number of pupils showing an initial improvement was 110. Total number of pupils showing a sustained improvement was 100. Percentage of pupils sustaining improvements was therefore 90.9%. | "90.9% of pupil who were perceived by their teachers to have made an initial improvement were seen to sustain this improvement over a period of 36 months" |