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1   **TITLE:** A Bioecological Perspective on Talent Identification in Junior-Elite Soccer: A  
2   Pan-European Perspective

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**TITLE:** A Bioecological Perspective on Talent Identification in Junior-Elite Soccer: A Pan-European Perspective

**Abstract**

Elite soccer clubs across Europe spend ever-increasing sums of money on transfers and salaries for world-class players. Consequently, clubs' talent identification and development processes for junior players have become more professionalised. Based on a holistic ecological approach, this study presents an analysis of talent identification practices across some of the most productive soccer academies in Europe ( $N = 11$ ). Data were collected via semi-structured interviews with 11 heads of academy recruitment from clubs in the 'big five' European leagues. Clubs were purposively sampled based on their player productivity ranking. Interviews ranged from 52:26 minutes to 114:06 minutes in length ( $m = 87:53 \pm 20.10$  minutes). This study argues that holistic ecological approaches the environments were characterised through the interplay of factors that ranged from high-level internal to international level relationships. This resulted in the identification and recruitment of players from local and international environments. The purpose of recruitment was suggested to have a dual purpose: recruitment of players for the first team; recruitment of players for further development/monitoring and/or selling to another club.

**Keywords:** scouting; recruitment; talent selection; ecology; culture

## 37    **Introduction**

38    Professional soccer clubs across Europe are spending ever-increasing sums of money  
39    on the transfer fees and salaries of world-class players. Consequently, increasing sums  
40    are also being spent on academy level talent identification and development (TID)  
41    processes and practices, which continue to become increasingly professionalised  
42    (Larsen et al., 2013). Indeed, identifying and developing junior talent in soccer has  
43    become a critical issue for clubs and national federations. It is, therefore, unsurprising  
44    that the Union of European Football Associations (UEFA) and some national leagues  
45    have launched ‘localised’ initiatives designed to promote their TID outcomes  
46    (Richardson, et al., 2012); though recent findings suggest that home-grown players  
47    have lower employment rates in their home country than players developed elsewhere  
48    (Poli, Ravenel, & Besson, 2015; Poli, Ravenel, & Besson, 2018). Whilst there have  
49    been a number of initiatives to develop and increase the number of home-grown players,  
50    there appears to be wider issues affecting these developments. For example, evidence  
51    suggests that the Premier League has the second lowest number of indigenous players  
52    when compared to the other major European leagues (*i.e.* Bundesliga, Ligue 1, Serie A,  
53    and La Liga) (Littlewood, Mullen, and Richardson, 2011). Whereas, Spain and Italy  
54    are highlighted as having the largest percentage of indigenous players in their leagues,  
55    suggesting that there are both cultural and philosophical conditions within those  
56    countries that encourages players to remain in their native country (Richardson, Relvas  
57    & Littlewood, 2013). However, the most recent data suggest that the footballers’ labour  
58    market across Europe has become de-territorialized, evidenced by a decreased number  
59    of club-trained players at their indigenous club, increased numbers of expatriate players,  
60    and greater player mobility; these factors contribute toward difficulties for clubs

adhering to league or federation requirements on home-grown talent numbers within their squads (Poli, Ravenel, & Besson, 2018).

Identifying and developing elite soccer players is a time-consuming and complicated process (Baker et al., 2018) and it is no surprise that most professional soccer clubs have their own systems and structures for determining the level of complexity they are willing to accept as part of their TID strategy (Richardson, Relvas & Littlewood, 2013). However, it is also important to recognise that ‘identification’ is only the first step (Larkin & Reeves, 2018) in a long and winding talent development road (Baker, Wattie & Schorer, 2019). Therefore, when discussing talent identification and/or selection, it is also important to recognise the integration of the talent development environment and how these mechanisms, processes, and decisions operate at a pragmatic and functional level (Collins, MacNamara & Cruikshank, 2018; Ivarsson et al., 2015). However, we add a note of caution here, as it is not our intention to promote or extend the debate into *what* is talent in sport as this is adequately covered elsewhere (see Baker et al., 2019).

In this article, we provide a theoretical insight into the talent identification processes and development environments from some of Europe’s most productive professional soccer academies. In terms of advancing best practice in the field of TID research, Urie Bronfenbrenner’s (1979, 2005) bioecological model of human development acts a useful framework, as it can represent both the dimensions and outcomes of the athletic environment and the roles and functions of the participants involved in the talent recruitment process. Although it must be noted, the working model applied in this paper does not fully correspond with Bronfenbrenner as it does not include the meso and exo levels. However, as Collins, MacNamara and Cruikshank (2018, p. 8) suggest, this still contributes a ‘contextually situated perspective’ to the

talent research literature and provides a unique opportunity to examine TID from an applied ecological setting. Specifically, the holistic ecological approach (HEA) to talent in sport (*i.e.* Henriksen, Stambulova, & Rossler, 2010a, 2010b, 2011) shifts the researcher emphasis away from the physical, perceptual-cognitive, technical, and tactical attributes of the individual player to the context of the environment where the player develops (*i.e.* the academy). This shift in focus is represented by two applied theoretical models (Henriksen, Stambulova & Roessler, 2010). The first, which is termed the athletic talent development environment (ATDE), and is defined as a framework that comprises of the following:

“...a dynamic system comprising (a) an athlete’s immediate surroundings at the microlevel where athletic and personal development take place, (b) the interrelations between these surroundings, (c) at the macrolevel, the larger context in which these surroundings are embedded, and (d) the organisational culture of the sports club or team, which is an integrative factor of the ATDE’s effectiveness in helping young talented athletes develop into senior elite athletes” (Henriksen, 2010, p. 160).

Empirical evidence to support the applied architecture of the ADTE has previously been reported across individual sports such as kayaking (Henriksen, Stambulova & Rossler, 2010), golf (Henriksen, Larsen & Christensen, 2014) and track and field (Henriksen, Stambulova & Rossler, 2010b). The ATDE has also explored the dynamics and interactions between players and coaches in team sports such as soccer, however, these have tended to be restricted to isolated case studies of professional soccer clubs in Scandinavia such as Denmark (Larsen et al., 2013) and Norway (Aalberg & Saether, 2016). The second working model, the environment success factors (ESF), is grounded in organisational psychology (Schein, 1990) and emphasises

the organisational culture of the environment. The ESF model comprises a set of preconditions (*i.e.* human, material, financial), the process (*i.e.* training and formal competition), the organisational culture (*i.e.* artefacts) and the team development, which operates in tandem with the ADTE and acts as a framework to measure impact and effectiveness (Henriksen et al., 2010). Features of successful ADTEs have included: inclusive training environments; role models; emphasis on long-term development rather than short-term success; a consistent and rationale organisational culture; and the assimilation of sporting demands.

To our knowledge the ADTE and ESF have not been empirically examined across recruitment systems and cultures other than Scandinavia. Furthermore, whilst we understand that the ADTE and ESF were designed, initially, to provide holistic descriptions of the talent development environment, we also believe this could be adapted to offer a more detailed insight into the identification processes that exist within this particular domain. We also agree with Collins et al. (2018) that previous TID research has relied typically on singular methodologies, such as the retrospective recall interviews, and despite the methodological limitations (*i.e.* self-report bias) associated with this methodology it continues to permeate the TID literature. In view of these shared concerns we believe that these two working models has much to offer in terms of how socially constructed interview data can inform the current TID landscape in junior-elite soccer. For instance, the interview guides designed by Henriksen et al. (2010) gathered data that were captured from interviewees in their ‘current’ organisational role (*i.e.* coaches, recruitment staff, *etc.*) and, therefore, may go some-way to address the reliability issues associated with retrospective recall. The present study also represents a response to Henriksen et al. (2011) who called for more research of environments in which senior athletes continually achieve top level results.

Therefore, the focus of this study was to explore how talent identification is framed within the context of ADTE and operationalised within the ESF at some of the most successful soccer academies in Europe. Specifically, the aims of the present study were: (1) further our understanding of talent identification processes and mechanisms in ATDEs in junior-elite soccer; and (2) examine the factors influencing its success in developing junior-elite soccer players.

## **Method**

### *Situated context*

Across Europe, a professional soccer academy, defined as an *elite performance development environment*, is where potentially talented players are identified and recruited with the aim of becoming professional players (Mills, Butt, Maynard and Harwood, 2012; Larsen *et al.*, 2013). For junior players (*i.e.* 8-16 years old) selected for an academy, especially academies of elite professional clubs, these environments offer some of the very best resources and training facilities (Ashworth & Heyndels, 2007). The organisational structure of professional academies can vary, but will typically include personnel such as head of academy/academy director, full-time coaches, part-time assistant coaches, sports scientists, heads of recruitment, and full-time and part-time talent scouts. See Relvas (2010) for a detailed analysis of the organisational structures and working practices of European soccer academies.

### *Participants*

Eleven heads of recruitment aged between 34 and 62 years old ( $m$  48.5,  $\pm$  9.5 years) participated in this study. To provide a balanced and geographically diverse perspectives on junior-elite player environments (Mills *et al.*, 2014), heads of

recruitment from 11 professional clubs' academies around Europe agreed to participate in this study. Further, to include a depth and richness to the information required (Patton, 2002), it was necessary to recruit a sample that could be considered responsible for the identification of players that had progressed to the highest levels of performance within their respective professional leagues. Unlike other staff (*i.e.* coaches, sports scientists), it is not a pre-requisite for a head of recruitment to hold recognised qualifications. Therefore, given the specific nature of the inquiry, participants were recruited on the basis that participants were responsible for the day-to-day recruitment decisions across the academy. Each participant was male and had held their current position between 1.5 and 16 years ( $m = 8.5$  years,  $\pm 4.8$  years).

#### *Procedure*

In order to satisfy the stipulated inclusion criteria, the most productive academies, as determined by the Centre International d'Etude du Sport (CIES), were contacted (CIES, 2016). Academies identified in the CIES training club data were e-mailed ( $n = 55$ ), either directly to the named head of recruitment, or addressed for their attention via a club-based email address. There were 16 responses to the original request with a total of 11 heads of recruitment agreeing to participate. This represented a 20% response rate and included responses from professional clubs currently playing in the English Premier League ( $n = 3$ ), French Ligue 1 ( $n = 3$ ), German Bundesliga ( $n = 2$ ), Italian Serie A ( $n = 1$ ), and Spanish La Liga ( $n = 2$ ). Institutional ethical approval was obtained, and informed assent and written consent was provided by all participants. Before starting the interview, participants were reminded of the purpose of the interview and informed they were free to withdraw at any time. There were not considered to be any language barriers as all participants were fluent in English and fully understood the questions that were posed.

## 184 *In-depth interview guide*

185       As this study formed part of a larger multidisciplinary talent identification  
186 project surrounding junior-elite soccer academy environments in the United Kingdom,  
187 Western Europe, and Australia, rigour surrounding the pilot testing of interviews was  
188 already established (*i.e.* Reeves et al., 2018). All interviews were conducted by the  
189 principal researcher over a ten-month period, at dates and times convenient to the  
190 participants and included venues such as the respective clubs' academy or stadium  
191 offices. The interviews were semi-structured (Kvale & Brinkman, 2009), which  
192 enabled the researcher the opportunity to probe issues that were considered important  
193 for the identification and development of talented youth soccer players. Similar to  
194 Henriksen *et al.*, (2010) the interview guide was divided into four sections. In the  
195 introductory part, rapport-building questions (*i.e.* can you tell me a little about your  
196 career journey and your current role) were asked. In the descriptive section, the  
197 interview guide was informed by the ADTE and ESF models, and questions were asked  
198 around the roles and function of the specific components of the identification processes  
199 and the relationship between these mechanisms at the micro- and macro-levels. The  
200 explanatory section included questions which probed the reasons behind the  
201 environments success and factors that included preconditions, process, individual  
202 development, and organisational culture. In the final part of the interview further  
203 questions were posed that were designed to explore past traditions and future obstacles  
204 for the environment. Interviews were digitally recorded and lasted between 52 minutes  
205 and 114 minutes ( $m\ 87:53 \pm 20.10$  minutes). The combined total of all interviews was  
206 ~16 hours. Following each interview critical discussion points were noted in theoretical  
207 memos for use during analysis alongside fieldnotes (Rapley,2011).

## 208 *Data analysis*

All audio data were transcribed verbatim with field notes and theoretical memos digitised to aid the analysis process. Transcribed material produced over 607 pages of single-line spaced text (~450,000 words). All transcribed data were imported into QSR NVivo 11 and subjected to constant comparative analysis (Rubin & Rubin, 1995). Data collection and analysis occurred in parallel; with each subsequent interview the generated categories were compared with existing ones to determine whether data produced new discrete categories, became property of an existing category, or represented a category with a higher level of abstraction (Parry, 2004). Analysis began with open coding, whereby data were segmented into meaningful expressions before being coded axially – reassembling the data that had been broken down during the open coding process (Strauss & Corbin, 1998). During the coding process, fieldnotes and theoretical memos were shared amongst the research team, though there was no attempt to seek consensus at this stage. All data treatment was performed by the principal investigator, but final categories, interpretations and concepts of the ADTE and ESF were shared until final agreement was reached. Field notes acted as *aide memoires* but also provided context on interactions and process to support the credibility of data interpretation (Koch, 2006). A final effort to ensure credibility was to share the final proposed ATDE and ESF models with participants (Guba & Lincoln, 1989). In total nine participants responded to our request to review and comment. Aside from some explanatory commentary, there was agreement as to the overall presentation and representativeness of the model from all respondents.

## **FINDINGS & DISCUSSION**

### *Overview of all Clubs as Talent Environments*

This study focussed on 11 of the most productive European academies to understand the talent identification processes and mechanisms in ATDEs in junior-elite soccer, whilst also examining the factors influencing their success in developing elite adult players. The investigation was concerned with the entirety of TID and, thus, focussed on all ages groups as a departure for the describing of the empirical ATDE model of these clubs (see Figure 1). Considering that all components of the environment are interconnected and influence each other, the model demonstrates the most important components and relationships alongside the structure of the environment (Larsen *et al.*, 2013). The thickness of arrows demonstrates the closeness of the relationship, with the most important relationships focussed around the *Head of Recruitment*.

**Figure 1:** The ATDE Empirical Model of European Talent Identification & Recruitment

**!INSERT FIGURE 1 ABOUT HERE!**

#### *Micro-environment: athletic domain*

The micro-environments of the elite clubs were characterised by a range of playing squads which range from pre-academy/development squads (*i.e.* players from u8 down who cannot be officially registered with the national federation by the club), then U9s to U23s.

*Club-based support structures* included coaches, assistant coaches, sports scientists (including performance analysts and strength/conditioning coaches), medical services (including physiotherapists, podiatrists, and a medical doctor). Here, staff were qualified in a range of football qualifications (*i.e.* UEFA A licence and Pro-licence) and

256 academic qualifications (*i.e.* BSc, MSc, and in some cases PhD). In addition, all of the  
257 clubs involved in the study had relationships with universities – sometimes local,  
258 sometimes at distance – and had some form of consultancy or support-role offered by  
259 those institutions. To close the research-practice divide these clubs were making best  
260 use of research evidence to inform their talent identification and talent development  
261 procedures and practices. For example, well established growth, maturation and  
262 anthropometric research had permeated through the clubs’ recruitment philosophy, and  
263 there was consensus that predictability of talent based on physiology testing alone was  
264 flawed. All the clubs adopted assessment protocols for measures of functional capacity  
265 but combined these with soccer-specific tests for dribbling, ball control, shooting speed  
266 and accuracy and perceptual-cognitive passing tests in congested areas in an attempt to  
267 replicate the decision-making demands of competition. Furthermore, imposed  
268 environmental constraints (*i.e.* a skewed distribution of selecting players born earlier in  
269 a pre-defined age group comparative to those players born later due to an imposed cut-  
270 off date), commonly referred to as relative age effects (RAEs; Haycraft, Kovalchik,  
271 Pyne, Larkin, & Robertson, 2018) which are known to affect a player’s prospect of  
272 becoming a full-time professional (Furley, Memmert, & Weigelt, 2016) were  
273 understood across all the clubs in this study. We documented pedagogical age group  
274 modification strategies similar to those reported by Mann and van Ginneken (2016),  
275 where talent scouts were provided with birthdates of players *a priori* and, in some  
276 instances, the decimalisation of players’ ages was provided on training vests during  
277 real-time scouting assignments. Integrated age-ordered shirt numbering was also  
278 mentioned as a pedagogic means by which academy coaches applied *in situ* age  
279 appropriate coaching, thus ensuring technical and tactical skills were provided in  
280 positive, supportive and developmentally appropriate environments. These findings are,

therefore, at odds with recent qualitative investigations surrounding the implications of RAEs in elite academy environments (Andronikos *et al.*, 2016).

From a biological perspective, variations between chronological age and biological maturation was also understood and, in some cases, estimates of skeletal maturity were in place to measure and monitor players classified as late, average or early maturity according to birth date quarter. One club mentioned the adoption of bio-banding strategies following the recommendations of the literature (Cumming *et al.* 2017), that is, adolescent soccer players were grouped according to biological maturation bands given by percentage of predicted mature stature that was attained by participants at a specific chronological age. Together these findings suggest the academies are perhaps more ‘educated’ about the nuances of talent than has been suggested previously. We recorded no evidence that recruitment staff were mis-understanding anthropometric characteristics as a beneficial variable for future performance, however, saying that, it was outside the scope of this study to capture statistical date-of-birth data, maturational indicators, or anthropometric measures, so we are unable to report as to whether these well-established talent recruitment problems were mediated.

Pivotal to the working demands of this model across all these clubs is the relationship between the *head of recruitment, club-based support structures* and other recruitment staff, who were classified as *full-time recruitment staff, local scouts, or at distance scouts*. *Full time recruitment staff* were an essential component of the TID paradigm, mainly responsible for administrative components of talent identification (*i.e.* liaising with scouts regarding games to attend), though these roles also included attending games and observing potentially talented youngsters.

305 *Grassroots clubs (locally)*

306           Local grassroots clubs were largely held as critical components of the scouting  
307 and recruitment process. All participants indicated that local clubs and, thus, local  
308 players, was “...*what it’s all about...getting youngsters who know and probably*  
309 *support the club, playing for the first team if we can...they understand our history, our*  
310 *culture*” (Participant ES2). Therefore, the relationships between academy staff (*i.e.*  
311 scouts and recruitment) and local clubs was seen as being of paramount importance,  
312 but also had a financial benefit as there were lower associated costs with these players  
313 during their developmental period (Reeves *et al.*, 2018).

314 *Micro-environment: non-athletic domain*

315           *Education structures* spanned both micro and macro-structures and had close  
316 connections with club-based support structures. This was, in part, due to the link  
317 between an education officer (or similar) who was employed by the club and acted as a  
318 liaison between school and academy. Education was a critical characteristic for all  
319 players involved with their respective academies, though the nature of this link varied  
320 between clubs and even between individual players at the same club (Christensen &  
321 Sørensen, 2009) . Participants highlighted how schools were often seen as useful sites  
322 of inside knowledge of an individual players’ behaviour, motivation, and capacity to  
323 learn. This insight gathering was typically undertaken by *full time recruitment staff*,  
324 including the *head of recruitment*.

325 *Macro-environment*

326           The macro environment comprised people and groups with whom the players  
327 do not have regular (*i.e.* at least weekly) contact. In some instances, player contact was

not identified at all (*i.e. At Distance Scouts*). Here, it was possible to see the head of recruitment as the cornerstone of communication. Similar to findings from Relvas *et al.* (2010), structural differences were apparent between participating academies, with reserve teams/under 23 teams positioned differently. For example, in England, two of the under 23 squads were all positioned within the academy environment with seemingly tangential contact with the first team, whilst one was embedded alongside the first team. In all instances, the teams were located in the same physical environment (*i.e. a single site training ground*), though separated by organisational and facility-based barriers (Dowling *et al.*, 2018).

#### *Director of Football*

The role of the director of football (DoF) is common amongst European football clubs, albeit with slight variances on the title and their associated responsibilities (Parnell *et al.*, 2019). Indeed, the functions performed in this role varied between clubs from a focus on first team recruitment activities to oversight of all club activities including: first team, academy, sports science and medicine, amongst other things (Parnell *et al.*, 2019). This resulted in variance in the types of communication that study participants had with the DoF, and a largely hierarchical structure became apparent. However, regardless of the organisational structure, contact between academy players and academy-level staff (*i.e. head of academy recruitment*) was infrequent, typically once per week, unless there were pressing matters (*i.e. registration/contractual issues*).

#### *First Team*

The first team environment was considered the ‘*end goal*’ by participants: their job was summarised as “...*identifying the best potential talent, bringing it to the club, allowing it to be developed and hoping that it turns into a professional footballer*”

(Participant GR1). There was acknowledgement that the first team environment was used symbolically to motivate and sell the club to potential youngsters looking to join. However, the closeness to the first team environment was suggested to be mostly relevant to the professional development phase within the academy (*i.e.* U17 upwards). Indeed, there is a growth in the research focussing on phases of transition (*e.g.* Morris, Tod & Eubank, 2017), organisational transitions (*e.g.* Morris, Tod & Oliver, 2015), and stakeholder perceptions (*e.g.* Morris, Tod & Oliver, 2016).

#### *Professional Club (Globally)*

Relationships between clubs tended to have a focus on first-team performance, with academies focussed on players within the professional development phase of their careers, mainly exploring the transfer or loan transfer of those players: “*Most stuff tends to focus on the first team, and relationships with other clubs is the same...but we have to work on it, too. We have lads who need loans and permanent moves and so do those clubs, so it helps if there is an existing relationship in place*” (Participant UK3). There was also acknowledgement of the need to be aware of players that might be of interest, what might be considered more traditional recruitment practice, as one participant explained, “*We have good links with clubs around the world...we have to, you never know who is going to get spotted and whether you’re going to need to consider them...that’s why you need breadth of coverage and why you need to build relationships with clubs so you can easily get on the phone and discuss things*” (Participant BE1). There appeared a desire for academies to find the best young talent to develop in order to save money later down the line (Reeves *et al.*, 2018; Pruna, Tribaldos & Bahdur, 2018) and relationships emerged as an important aspect of that (Gerke & Wäsche, 2019). Indeed, contemporary studies, adopting a network perspective suggest that

clubs' success in the transfer of players is strongly associated with their networks and relationships (Liu *et al.*, 2016).

#### *At distance scouts*

Academies, as well as first teams, operate a number of scouts at distance, including nationally and internationally. These individuals were unlikely to have regular contact with others at the academy, except for the head of recruitment or, sometimes, recruitment staff. Depending on the size of the club, these scouts sometimes also undertook duties for the first team environment, too. "...we have about a dozen global scouts, some who just do academy-related work, and some who do academy and first team...it depends on where they are [geographically], how well we know them and what they produce...in some of the smaller places, for example Scandinavia, Joris [pseudonym] does about 50:50, first team and academy...we've worked together for a long time and I know I can trust him to get on and do very well and he only comes to me if it's something important" (Participant ES1). Of note, here, was the emphasis on trust between the head of recruitment and scouts working at distance; undoubtedly the operating distance required trust that the work required would be undertaken and that the quality of information would be sufficient to enable clubs to make decisions in a timely manner. "Because of the climate we operate in, we have to try and be first to know things: who's playing well, who's coming through, who's had injury issues, who might be worth keeping an eye on, it's an information industry masked as a football one [laughs]" (Participant UK2).

There have been a number of high-profile clubs that have broken rules regarding 'tapping up' players, in their own countries and abroad. For example, in 2017 Liverpool FC were banned from signing academy players and fined £100,000 for 'tapping up' a

player registered with another club (Hunter, 2017). Participants suggested that in a period of increased scrutiny, it was important to ensure scouts, particularly those operating at distance, were mindful of these issues, and did not engage in practices that might undermine the club's credibility. *"We do our best to make sure things are done correctly and procedures are followed, but there are lots of moving parts in recruitment and typically, lots of people involved from agents, players, parents and club officials...all wanting to have their input and all having different discussions. It can be a minefield at times"* (Participant UK1).

### **The ESF working model**

The ESF model (Figure 2) represents the factors influencing the success of these 11 clubs in relation to the ADTE. Unlike previous iterations of this model from different sports, we were unable to suitably distinguish between preconditions, process, and organisational development and culture. Thus, these three components overlap in order to demonstrate the strong congruence between them and the inseparable nature of one from another.

**Figure 2:** The ESF Empirical Model of European Talent Identification & Recruitment

**!INSERT FIGURE 2 ABOUT HERE!**

### *Preconditions*

Financial resources offered a competitive advantage in the identification of players. Specifically, finance was linked to the global breadth of coverage that a club was able to achieve in their identification efforts. *"We're lucky that the club takes global*

423 *recruitment seriously...we have invested in this recently...I think because it is always*  
424 *getting harder to do what we do”* (Participant IT1). A club’s ability to identify and  
425 recruit players internationally was considered closely linked to their international image,  
426 as was being able to establish satellite academies. *“Part of being at a club like this is*  
427 *realising that we are a global brand and we need to operate like one...having*  
428 *academies in other countries is just part of this”* (Participant DE3). Importantly, a  
429 club’s history, identity and the expectations of club leaders and fans alike, was a key  
430 precondition and manifest in the clubs overall playing philosophy and, thus, recruitment  
431 practices (Nesti & Sulley, 2014).

#### 432 *Process*

433 A critical component of identifying talented youngsters, was considering  
434 whether they would be suitable for the clubs playing philosophy. *“We have to be sure*  
435 *what and who we’re getting involved with...that’s why we spend so much time getting*  
436 *to know as much about a player as we can. Their attitude, their resilience, and*  
437 *everything else going on in their heads...will they be able to work with us? Are they*  
438 *willing to listen and to learn? They are the basic questions we have to answer.”*  
439 Recruitment to a club’s academy was typically at the under nine age group, though all  
440 participants indicated that they ran a range of ‘pre-academy’ opportunities, though the  
441 exact operation of these varied from club-to-club. These pre academies enabled clubs  
442 to offer their coaching curriculum to youngsters who might have the potential to join  
443 the academy proper at the appropriate age. This was noted as an opportunity for scouts  
444 and recruitment staff to begin building and developing relationships with potential  
445 future players and their parents. Such relationships with parents can be seen as crucial,  
446 with the needs and identities of parents shifting and mutating as their child becomes  
447 further enveloped in junior-elite football (Clarke & Harwood, 2014). However, scouts

and recruitment staff were also expected to place significant emphasis on building and developing relationships with other stakeholders, including other scouts, grassroots clubs and leagues, regional squads, coaches, and administrators. In essence, no stone was expected to be left unturned in the quest for unearthing potential talent.

### *Cultural Paradigm*

All clubs' facilities were utilised to position the club positively. For example, walls were frequently adorned with large photographs of successful academy teams, academy graduates, and positive written statements. There was also a significant use of club colours on walls and emphasis of the club's philosophy and values around the academy buildings, including reception, waiting areas, gyms, and changing rooms. Such artefacts have been suggested to manifest into the currency and discourse of the club. However, previous work in the UK (Reeves *et al.*, 2018) has suggested that such artefacts do not always manifest in such positive ways, emphasising that culture cannot be built through words and images alone. *"It's important for the boys that messages are consistent, probably for some staff, too [laughs]...it's also important that they know and are reminded what our goal is. The first-team wall [an artefact, listing all players who have passed from the academy to play for the first team] is where it is specifically, so every boy has to see it every time they come into the building...a constant reminder of why they're here – to become a professional footballer"* (Participant DE1).

It was particularly important for *communication* pathways to be *clear, open, and honest*. This, it was suggested, was not related to just scouting and recruitment, but to all club departments. Indeed, due to the fast-paced, fluid, and value entrenched nature of football clubs (Ogbonna & Harris, 2014), culture is, arguably, of greater importance here than in other organisational environments. *Wanting to be the best* referred to being

the best scouts and recruiters possible and wanting to be part of a club that was acknowledged for producing players. “...we like to think that we operate, at all times, clearly and honestly with each other, no matter who it is...it’s part of what we are about and helps us to work as well as we can do and achieve the best” (Participant FR1). Continually being aware of the requirements and expectations of the club was an organisational need and cultural norm, but also veered toward being an environmental deliverable. For example, by being sensitive to the requirements and expectations of the club automatically generates an outcome, though it is not necessarily tangible. “Part of being honest with people is setting out exactly what their role is, how we would like them to perform it, what we expect from them – whether it’s formally reported or verbally communicated back – that’s crucial to my guys knowing what we need, knowing what the level is we’re expecting boys to be at...it’s all connected, they have to know our successes to be able to sell the club to others, but they’ve also got to be sure someone they’re putting forward is on that level” (Participant UK3).

#### *Individual Development*

Working in football recruitment has, historically, been based on gut feelings, an expert eye, and numerous opinions (Reeves *et al.*, 2018; Day, 2011; Christensen, 2009). Though there have been recent attempts by national federations to develop the profession and provide educational development opportunities (Levett, 2018). Whilst there have been limited formal opportunities for scouts and recruitment staff to develop professionally, the norm has been internal professional development (Reeves *et al.*, 2018) and an expectation to reflect on their own practice, whether formally or informally. “We have meetings every year, but it’s difficult to get them all [scouts] here at the same time...especially international scouts, we usually have to just talk things through with them on the phone” (Participant FR3).

498           The often-cited single goal of developing players for the first team (Littlewood,  
499 Mullen & Richardson, 2011) appeared to no longer be the sole focus of clubs and  
500 academies. Whilst that remained a priority, clubs indicated how they now considered  
501 different opportunities for players in their development environments. “...*Take this kid,*  
502 *for example [pointing out of an office window overlooking a training session taking*  
503 *place outside], he’s got good potential, he’s 14 [years old], athletic, good family*  
504 *background, does well at school...but he’s not likely to play in our first team...we’ll*  
505 *keep hold of him for as long as its right to do so for us and him, and he’ll probably go*  
506 *on to have a career in the game somewhere, but it’s not likely to be here. Obviously, I*  
507 *can’t say a 100% that’ll be the case, things might suddenly click and he’s exactly right*  
508 *for us, but it’s more likely when he gets up to the 18s he’ll get a deal and be sent on*  
509 *loan or we’ll look for a more permeant move for him” (Participant UK2).*

510           This effectively shifts the traditional paradigm of football recruitment. Indeed,  
511 such approaches have a dual purpose: Firstly, they serve to position the club favourably  
512 amongst stakeholders (*i.e.* players and parents). By keeping younger players in the  
513 development system for a longer period, they ‘keep the dream alive’ for youngsters,  
514 with a view to providing their ‘career in the game’, albeit not necessarily with that club.  
515 It also allows the club to demonstrate and emphasise their capacity for player  
516 development; even if a players’ endpoint is not with that club, they can legitimately  
517 claim they have developed a youngster that has become a professional player. Second,  
518 it provides an opportunity for a club to retain a player’s registration, but for the player  
519 to go on loan in order to further develop, or to attain a permeant transfer. In both  
520 scenarios the parent-club may benefit in multiple ways. For example, the parent-club  
521 are able to keep-hold of a player’s registration and let others take responsibility for their

development; they are able to reduce their overall wage bill by having another club pay some or all of a player's salary whilst they are on loan; a permanent transfer might be arranged for the player due to the loan and, thus, the club benefits from a transfer fee, but might also benefit over a longer period through contractual agreements (*i.e.* sell-on and appearance clauses) that continue to provide an income after the player has left the club. However, such scenarios would appear to favour those clubs with a strong financial position from which to start (see preconditions), as higher numbers of players has increased costs in salaries, equipment, support staff, *etc.*, and loan deals are not guaranteed, meaning players may be let go (*i.e.* made redundant) if a loan or permanent deal cannot be achieved.

## **STRENGTHS & LIMITATIONS**

This study contains several strengths and limitations. This is the first study, to our knowledge, that has attempted to apply the ATDE and ESF framework outside of Scandinavia. It is also the first attempt to integrate multiple environments into one analysis as well as apply the generic framework to talent identification as opposed to talent development. However, caution must be applied when considering the findings of this study, as the participants and their respective clubs comprised 11 of the most productive academies in Europe. As such, our study does not highlight localised issues, or cultural differences that may be present in different countries, leagues, and clubs. The findings cannot be unconditionally incorporated into other contexts or sports.

## **CONCLUSION**

Professional soccer clubs are notoriously secretive about their talent identification, recruitment, and development procedures and access for researchers to these environments can be a challenge (Roderick, 2006). Using a holistic ecological

framework this study examined the talent identification environments of some of the most productive soccer academies in Europe. Findings suggest that there are several key factors that are influential in the identification of talented young players within these clubs including the breadth of coverage at local, regional, national, and international level. This study provides support for the use of ATDE and ESF as a framework for junior-elite football environments to evaluate their talent identification environment and structures. Findings indicate a shift from recruitment to develop players for a clubs' first team, to a multi-faceted talent identification and recruitment process that seeks players who might not quite make the first team, but still retain some value by being loaned or sold for profit. Future studies might consider the interplay between specific aspects identified in this study and to what degree each influences the other.

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