Study on the Formation Process and Effect of Tactical Performance Ability of Youth Training Team Based on Big Data Analysis

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Abstract. Football is not only an important way to enhance international communication and the physical quality of the whole people, but also to enhance the feelings between people, strengthen unity, and create a positive fighting spirit. The article first briefly describes the current situation of domestic football development, then points out the great influence of football in world politics, economy, culture and its incredible commercial value, and combines the development of big data to train and evaluate the tactical play and consciousness of the youth training team. And get the positive effect of big data on the training effect.

Keywords: Big Data, Team Tactics, Ability, Effect

1. Introduction

The pain of Chinese football, after sleeping for 15 years, the team in the 2018 World Cup Asian qualifier miraculously entered the top 12, once again ignited the enthusiasm of the people. Since 2015, the concept of football has once again entered the market. Football has also become hot media coverage, so many times to explore its theme. Excellent investors are among them, in the football turn over the opportunity, no one willing to give up such a good opportunity. Since entering the 21st century, with the rapid development of Internet of things, electronic commerce and social network, the development of big data has also entered a new high point[1]. Big data first appeared in the football industry, the specific content is " football industry and Internet technology promote each other, which focuses on the football industry and mobile Internet, e-commerce, big data and other new technologies and new forms of business to carry out a high degree of integration, leading the football industry to carry out various aspects of innovation and reformation." Although "big data" is not a new concept, planning in the field of football is still the first time, even in the "General Plan for the Reform and Development of Chinese Football ", but not as detailed as it is now. In real life, big data has become
one of the key areas of Chinese football industry, and it is possible to become a new value growth point\cite{2}. Big data industry is developing in full swing, in the national policy strongly supported football. The combination of the two will undoubtedly burst out a huge energy.

2. A brief introduction to football industry

2.1. The extent to which football affects the world

Now, football is undoubtedly the world's most popular audience, the greatest impact, the highest output value, the best degree of professionalism, known as the world's first sport. It exists in a posture of perfect combination of strength, speed, skill and team spirit, which affects the hearts of hundreds of millions of people and attracts the attention of all mankind, and its profound connotation far beyond the category of sports. According to FIFA data, there are 240 million football players in the world, forming 1.5 million teams\cite{3}. The number is huge, and the number of employees involved is 30 of the 10 million 270 million soccer players represent about 4 per cent of the world's population. Football fans are up to 1 billion. Football fans make up about one-seventh of the world's population, and the value of football is up to 5 $100 billion. It is well-deserved to draw from the data that football is called the world's largest sport.

2.2. Commercial value of football

The world's sports industry has the least 3% of global sports revenue, followed by 4% of tennis and ice hockey, and only 6% of basketball's hot balls, followed by 7%, 12% and 13% of racing, baseball and rugby, followed by 43% of global sports industry revenue. The data show that the total output value of the global football industry is as high as 5%. At one point, it surpassed Belgium, Switzerland or other countries GDP, becoming the 17th largest economy in the world. Compared with other sports such as basketball, tennis, rugby and so on, football's revenue share is far greater than them, almost close to the overall 50%. It can be seen that the football industry has great commercial value. From the global sports market analysis, the European football industry has the highest proportion, up to 43%, followed by Asia 38%, Latin America and North America, the smallest proportion 6% and 13%, respectively. According to the data, Asia is the second most important player in the world. However, Japan and South Korea are the most important players. Compared with the European football power, the Chinese football team has a gap from the score, the operation of the football club, and the degree of development of the football industry as a whole. The introduction of European traditional football advantages through overseas mergers and acquisitions, the use of global resources to inject new impetus into the Chinese football industry has become the best way to catch up with the world's advanced level\cite{4}.

3. Applying big data analysis to the regular training of youth training team's tactical ability

In view of the wide influence of football in the world and the prospect of unlimited commercial value, high-level football players are the backbone of the revitalization of football sports, the competitive state of football players in the course of the game is largely determined by the players' competitive ability, and the improvement of football competitive ability needs to be realized through long-term training. Therefore, it is very important for the country to train young football players in tactics and to develop outstanding young football players in the shade field. The comprehensive tactical training is
evaluated by using big data analysis, and the evaluation steps are shown in Figure 1.

![Figure 1. Big data analysis and evaluation team tactical training steps](image)

3.1. Big data analysis youth team tactical training

The high-level football team's tactical training should not only design the individual play, but also design the overall play. The design of individual play is based on the athlete's physical fitness and the player's position in the field, the individual characteristics and ability into the field play, so as to improve the team's tactical effect and performance. On the other hand, the high-level football team's tactical play also needs to have the whole play training, that is, the individual integrates into the whole to form the balanced tactical play form. In the training of tactical play, the gap between individual and whole should be strengthened, and the existing advantages should be further optimized[5]. Therefore, in the optimized design, we insist on starting from the multiple and complex factors of football tactical training, adopt a step-by-step approach, coordinate the influencing factors of different aspects, and better improve the training plan of high-level football team tactical play.

The above analysis of football techniques and tactics is mainly based on the individual or from the point of view of the various positions in the football team to explain the technical and tactical training program. In fact, many factors in practical training will affect the real play of technical and tactical, these factors can be controlled, but also there are some uncontrollable factors. In order to improve the training effect effectively, it is necessary to use the evaluation system to evaluate the training and control the effect. The main purpose of adopting the evaluation program is to effectively adjust the technical and tactical training by evaluating the feedback content in the last round of technical and tactical training and finding the direction of improvement higher. From the way of technical and tactical training, the evaluation of technical and tactical training can be set as the evaluation of training course and stage evaluation. The evaluation of the training course takes a training class as the time node, carries out the qualitative or quantitative evaluation after each technical and tactical training class, summarizes the problems in the training, and can start from the training content of each training class, and analyzes the more prominent problems, such as the coach grasping a key content from the point of view of the general problem, stopping the training immediately once the problem arises, if the problem is similar to the problem in the training, but it is not a critical problem, can be summarized by the coach after the training, that is, to focus on a problem in a training course, emphasize the purpose of training. After training, the coach and other coaches should communicate, evaluate the training effect, at the same time, the athletes should also evaluate and self-evaluate each other, and finally use
big data to analyze the comprehensive evaluation and summarize the whole training problem[6].

3.2. Big data analysis of youth team tactical awareness training

Tactical consciousness is an abstract and subjective content. In the training of high-level football team's tactical consciousness, the tactical consciousness should be combined with the actual event situation, and the tactical consciousness should be integrated into the usual tactical training. According to the two basic tactics of attack and defense, it can be divided into fast attack consciousness, attack balance consciousness, passing and running consciousness, defensive consciousness after the ball line and anti-attack consciousness. Such as in the fast attack awareness training needs to be able to launch the main situation of fast attack, fast attack awareness of what importance and so on. Once there is a foul in the game, the goalie get the ball is a good time to choose a fast break. The timing of fast attack is difficult to appear in the training, so in the training by the coaches set the relevant conditions and circumstances, according to the training situation of athletes gradually change the training standards and training requirements of athletes, meanwhile strengthen the awareness of fast attack athletes. Finally, the athletes need to combine with tactical techniques when using the fast attack consciousness, such as the ability to quickly turn around and run forward.

The defensive consciousness after the ball line is a type of defensive consciousness, which requires the player to be able to put the ball in the defensive position in front of self. After the ball line defense mainly revolves around the football, in the partial expansion oppresses the type defense, which according to the match different situation makes the corresponding change. In the training of high-level athletes' tactical consciousness, coaches can adopt the mode of stage and stratification. From the basic content of football tactical awareness, tactical awareness includes special sports intuition, special sports attention, moving decision-making and so on. According to the specific situation of high-level athletes, coaches should train the contents of different aspects of tactical consciousness, and cultivate the tactical consciousness of football players step by step according to the relevant theories of psychological cognition. Football tactical awareness training is a long-term process, coaches can according to the specific content of football tactical awareness design corresponding programs, organized training in stages. In general, in the training of high-level athletes' tactical consciousness, we should not adopt a one-size-fits-all approach, but make clear the content of tactical consciousness, and consider the specific performance of the players' lack of tactical consciousness in combination with the actual situation of the athletes, train the players' tactical consciousness in a planned way according to the stage, level and difference, enhance the players' tactical consciousness ability, and effectively improve the performance of football matches.

4. Tactical effect test after training based on big data analysis

In addition, there are many kinds of high-level football team playing methods, which are based on the characteristics of different players in different locations. For athletes, choosing a suitable skill system can adapt to their physical condition, can better play their own ability, more flexible implementation of tactical requirements. And the final implementation of the technique in the game is mainly to see the scoring situation in the game, such as the number of shots, the number of goals, the number of passes, the success rate of passing, and so on, a good technique in other conditions are controllable will inevitably achieve better results on quantifiable standards. In the number of times entering the other side's restricted area, the number of times of the experimental group is obviously higher than that
of the control group, which shows that the experimental group presents a strong aggression, basically belongs to an offensive play method, and the attack method has obtained certain results. From the data of aggression, the experimental group has less times, indicating that its defense is stronger, and in the case of strong offensive defense, the performance of field techniques must be higher than that of the control group. This shows that the tactics training should be able to improve the technique training comprehensively, according to the individual athletes and athletes in the field position to set the corresponding play, better play the initiative of athletes. After the experiment, the test results of the experimental group and the control group were shown in Figure 2.

### Figure 2. Test results of the experimental group and the control group

5. Conclusion

For the tactical training of youth training teams, we should pay attention to the individual nature and overall coordination of each player, the training method should not be too single, we should comprehensively use repeated training method, intermittent training method, continuous training method and other training methods, structured differentiation of tactical system, targeted training of players tactical awareness, at the same time, strengthen the individual training of tactical play and individual physical training, so as to effectively enhance the tactical ability of players. In this era of big data has been in all walks of life, the application of it to the youth training team tactical ability training, will receive half the results.

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