Slide 1: Introduction

The Starlight project introduces a new approach for accurately predicting future outcomes in the football industry. The research presented at the International Congress of Finance and Tax in Konya, Turkey, on March 10-11, 2023, forms the basis of this thesis.

Slide 2: Goal/Task

The goal of this project is to develop a comprehensive talent-management solution that incorporates cutting-edge data analysis techniques and metrics to identify young football players with high potential for future success. A self-checking system will be included in the solution to ensure accuracy and reliability.

Slide 3: Solution

A closed-loop feedback system is created introducing total quality management to the researchby inspecting the robot-eye method with its own method (similarity analysis). Additionally, a new metric for football, xR - expected return, is created. The xR metric serves as a new benchmark for player valuation in the sports industry.

Slide 4: Already Closed Experiments

The closed-loop feedback system found that the human benchmark had the highest accuracy rate based on the data. The robot-eye method was more efficient in terms of time consumption.

Slide 5: Economic Calculations

The research has resulted in the development of a new metric called xR – expected Return, which can be used to determine a player's valuation change based on their attributes.

The main advantage of this project is the creation of a closed-loop feedback system that surpasses human experts in talent management for football.

The economic calculations produced the following results: Package human benchmark (Proto): € 13,800,000 fundings, € 31,125,000 payment, and € 17,325,000 expected return (xR) in EUR. Package Similarity Analysis (Giant): € 29,185,500 fundings, € 132,118,250 payment, and € 102,932,750 expected return (xR) in EUR. Package Linear Regression (Balance): € 32,131,000 fundings, € 139,550,750 payment, and € 107,419,750 expected return (xR) in EUR.

Slide 6: Discussion

The research has resulted in the development of a new metric called xR, which can be used to determine a player's valuation change based on their attributes. The creation of a closed-loop feedback system that surpasses human experts in talent management for football is the main advantage of this project.

Slide 7: Funding Programs

Funding programs can be created for talented footballers, such as those developed during the "Starlight" project. The three programs, named Proto, Balance, and Giant, respectively, are designed to provide funding to talented players based on their xR score.

Slide 8: Significance

The Starlight project has opened up new avenues for research and development in the field of sports analytics. The robot-eye method and the xR metric's success can be applied to other sports as well. The use of the robot-eye method and xR metric has provided a significant advantage over traditional scouting methods.

Slide 9: Win-Win Scenario

The funding programs developed by the Starlight project can be seen as a smart funding by the club to buy a young player with high potential for a low value and develop their skills, which can increase their value in the future. At the same time, the player benefits by having the opportunity to develop their skills in a professional setting and potentially increase their earnings and career prospects.

Slide 10: Future

A more comprehensive approach to data analysis will be necessary to effectively evaluate player potential in the future of talent management in football. It will also be crucial to evaluate a player's fit within the team dynamic and their contribution to the overall capabilities of the team.