

# Viktoria Berlin U16 Match Analysis Report

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## 1. Project Overview

This project focuses on the technical and tactical analysis of the Viktoria Berlin U16 team using LongoMatch. As a co-trainer, the goal was to tag and extract match events, clean the data, and generate insights on team and player performance. The workflow demonstrates how video tagging can be transformed into actionable data for performance improvement.

## 2. Challenges and Solutions

### Data Extraction

Challenge: LongoMatch’s export structure was not immediately suitable for analysis, with missing fields and inconsistent formatting. Solution: The project data was exported to CSV, then verified and restructured manually to ensure completeness.

### Data Cleaning

Challenge: The CSV contained inconsistencies such as name variations, missing target players, and event duplication. Solution: Using Excel and Python (pandas), the dataset was standardized, missing values filled, and text normalized for consistent analysis.

### Data Structuring

Challenge: The event-based tagging data required transformation for analytical use. Solution: A master CSV file was created with the following structure:

Time	Player number	Player Name	Event Type	Outcome	Target Player
0:53	9	Flo	Pass	Success	Anton
1:04	10	Anton	Pass	Success	Ben

## 3. Data Processing Steps

- Imported CSV into Excel / Python.
- Standardized text and removed duplicates.
- Converted time values to a uniform MM:SS format.

- Encoded outcome as binary (1 = success, 0 = Failure).
- Linked Player Name and Target Player for network visualization.
- Stored all cleaned data in a master CSV file.

#### **4. Results and Outputs**

The analysis generated both team-wide and individual-level insights. Visual dashboards were created to show top-performing players by category and overall team technical success rates.

Key outputs:

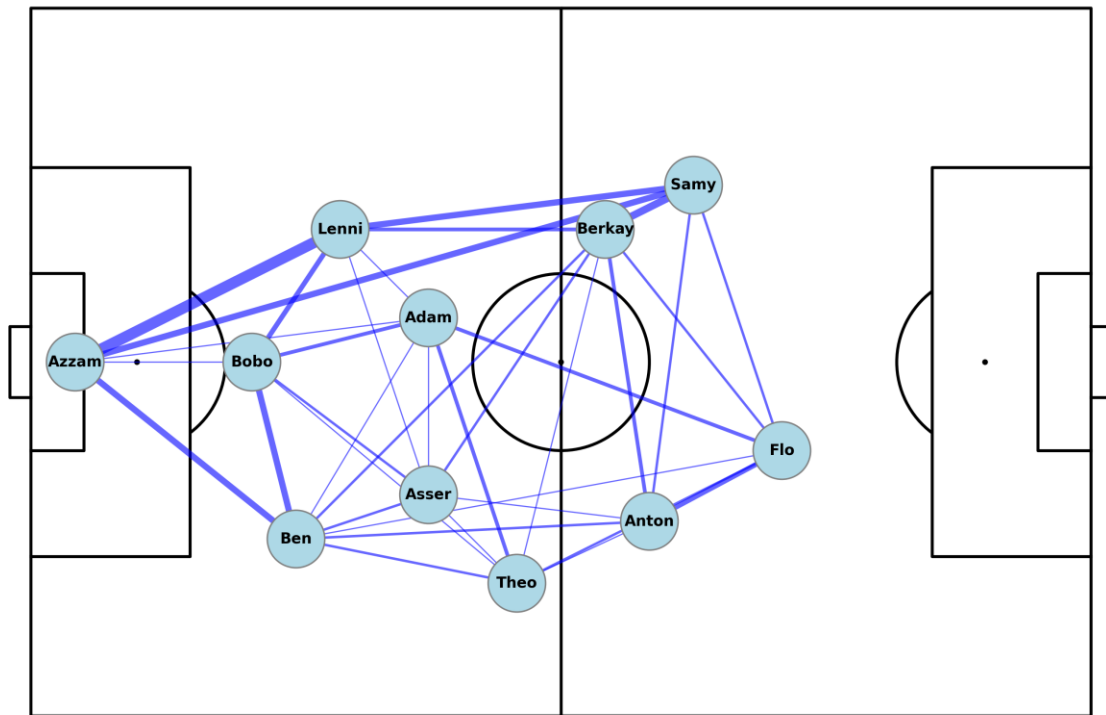
- Pass network map visualizing player connections.
- Team statistics: possession, passing accuracy, and event frequencies.
- Player statistics: success rates in passing, shooting, dribbling, tackling, and clearances.
- Master data (.csv) for advanced analytics.

## 5. Insights and Analysis

The team analysis revealed mixed technical performance, highlighting areas for both consolidation and improvement.

### Passing Network Map

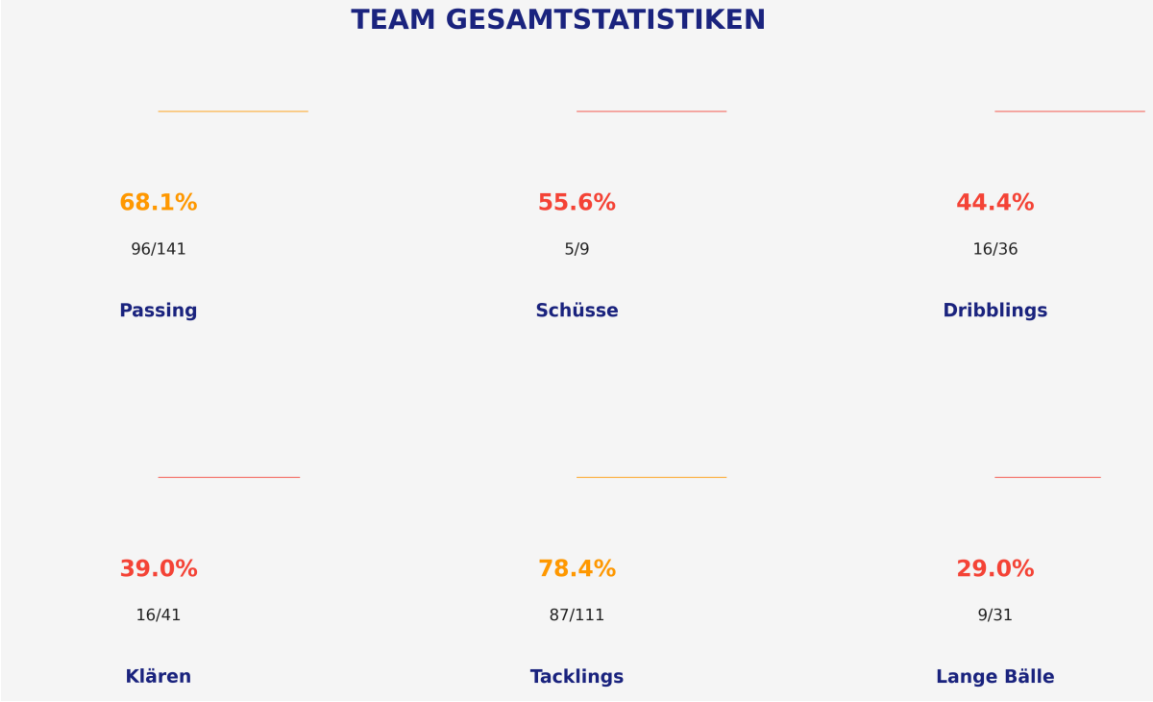
#### Passing Network Analysis



The pass network shows a clear left-side dominance in build-up play. This imbalance limits attacking variety and makes the team predictable in possession.

To improve, we should work on switching play more frequently, activating the right side, and using the central channels for distribution.

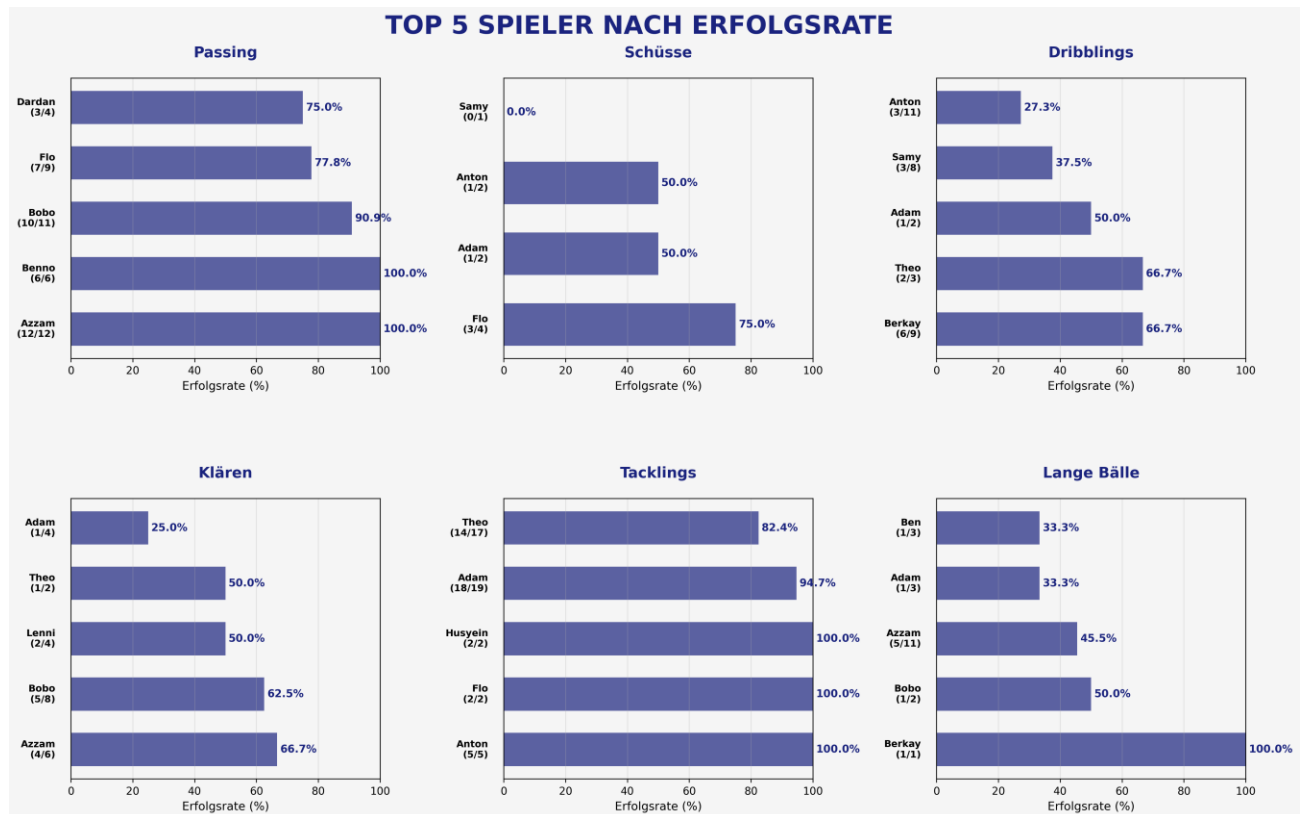
Balanced ball circulation will help maintain width, create more passing options, and improve overall team fluidity.



Team Performance Summary

Metric	Success Rate	Comment
Passing	68.1%	Solid foundation but needs improvement under pressure.
Shots	55.6%	Acceptable finishing; improve shot selection.
Dribblings	44.4%	Work on 1v1 confidence and decision-making.
Clearances	39.0%	Low composure; improve defensive decision-making.
Tacklings	78.4%	Strong defensive engagement and timing.
Long Passes	29.0%	Improve technique and decision-making for long passes.

## Top Individual Performers



## 6. Coaching Insights and Recommendations

- Passing accuracy requires focused drills under pressure (rondos, quick transitions).
- Long ball execution should be emphasized in technical and tactical training sessions.
- Defensive clarity under pressure can be improved via positional games and clearance simulations.
- Dribbling drills should focus on confidence and end-product decision-making.
- Finishing exercises need repetition and pressure to improve composure in front of goal.

## 7. Conclusion

This analysis provides an objective overview of Viktoria Berlin U16's technical and tactical performance. The team should prioritize improving passing accuracy, long-ball precision, and attacking transitions. The workflow demonstrates a data-driven coaching approach from LongoMatch tagging to quantitative evaluation and applied training insights.