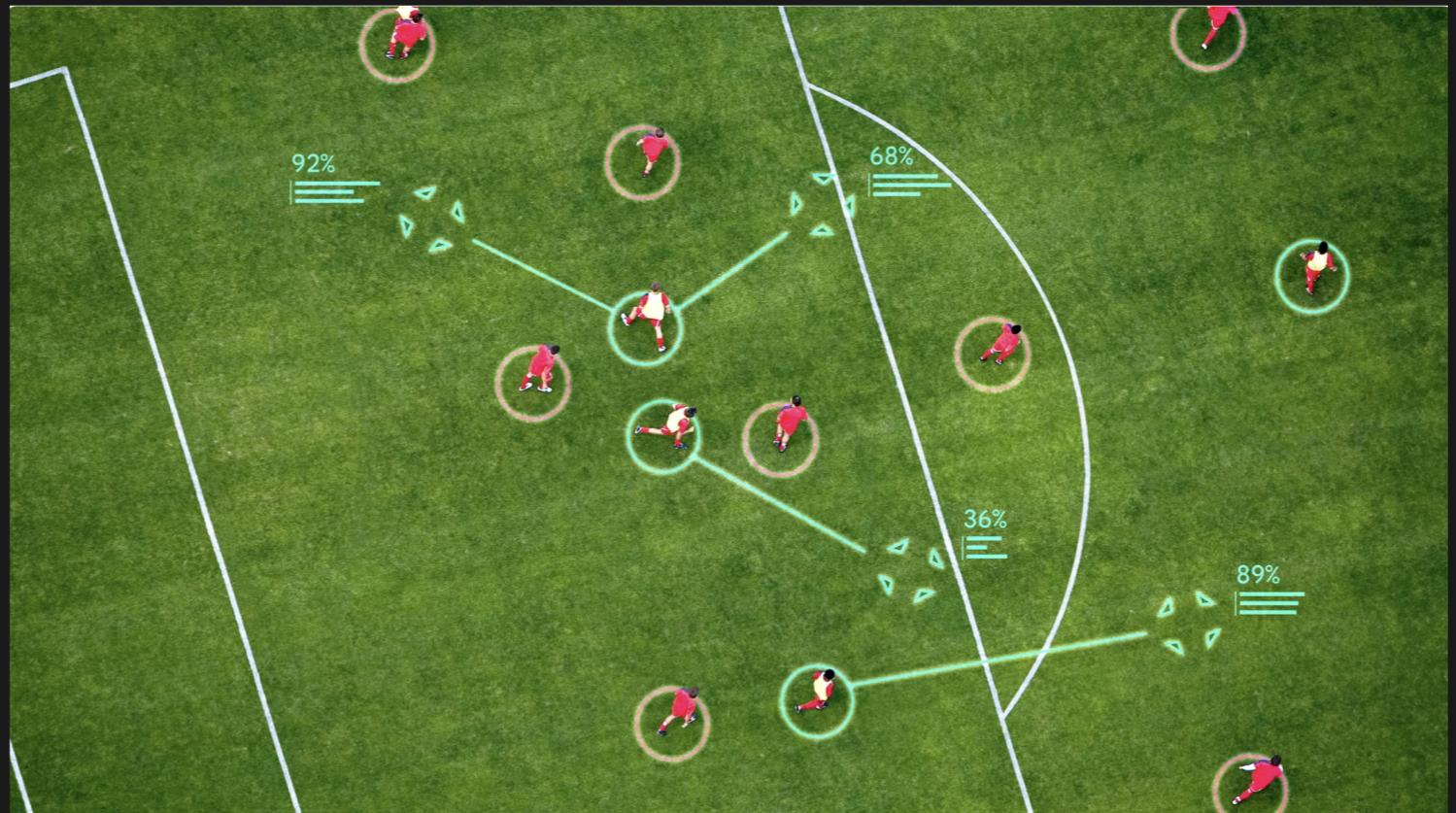


Match Analysis and Strategy using Artificial Intelligence

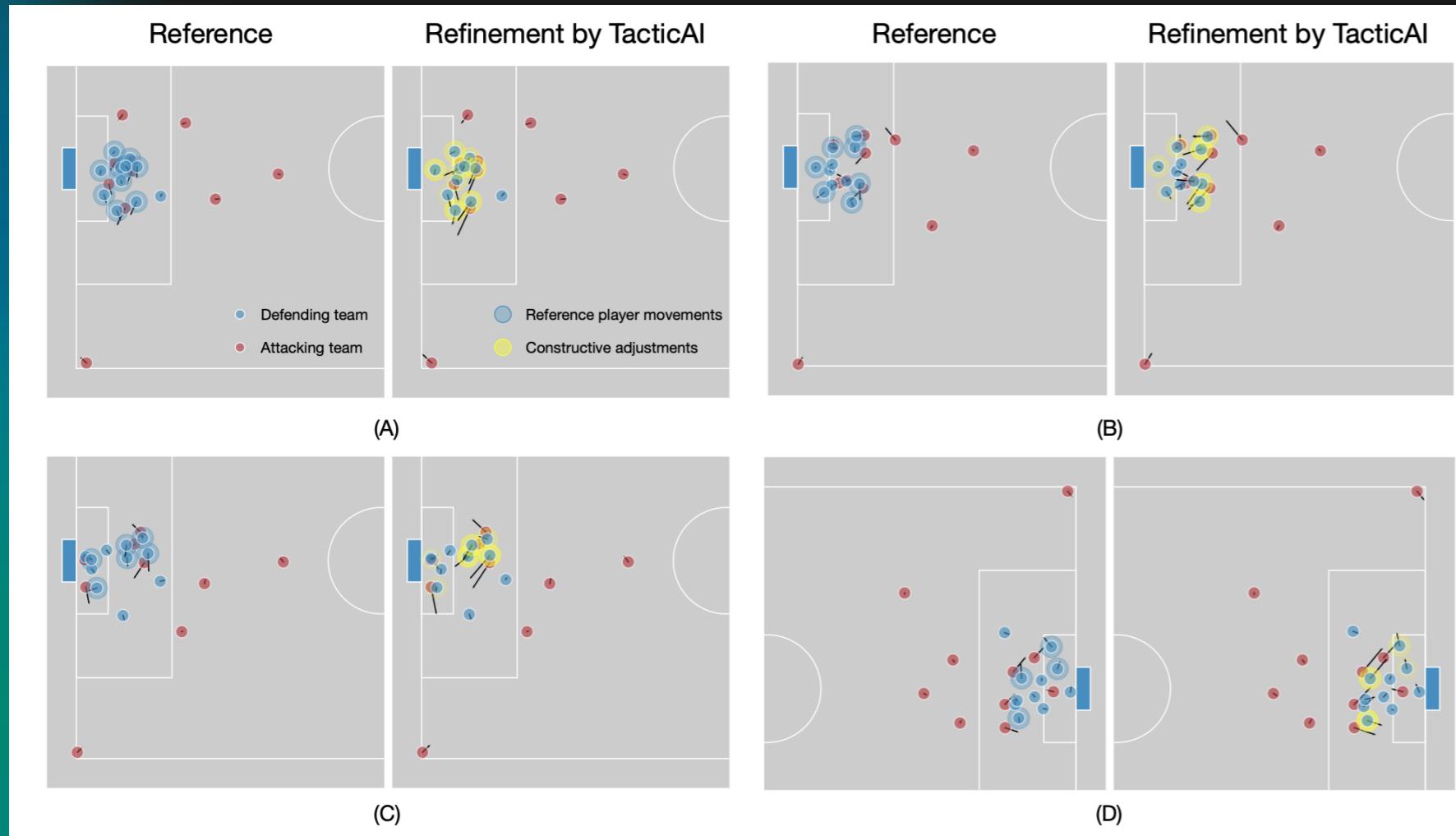


- What are the main applications of AI in sports analysis and strategy ?
- Who will be impacted with these technologies ?

TacticAI: an AI assistant for football tactics



DeepMind

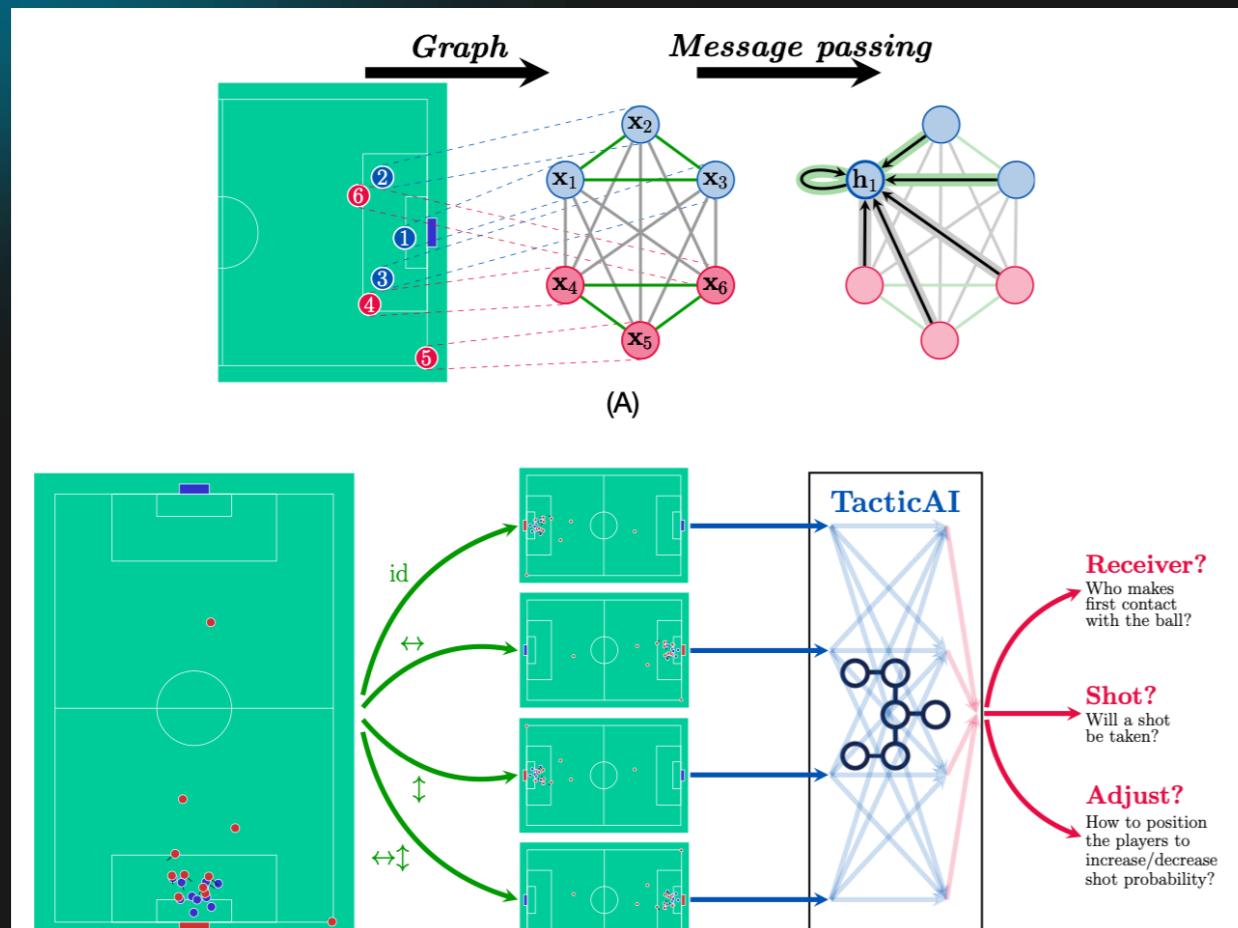


Examples of the tactic refinements recommended by TacticAI

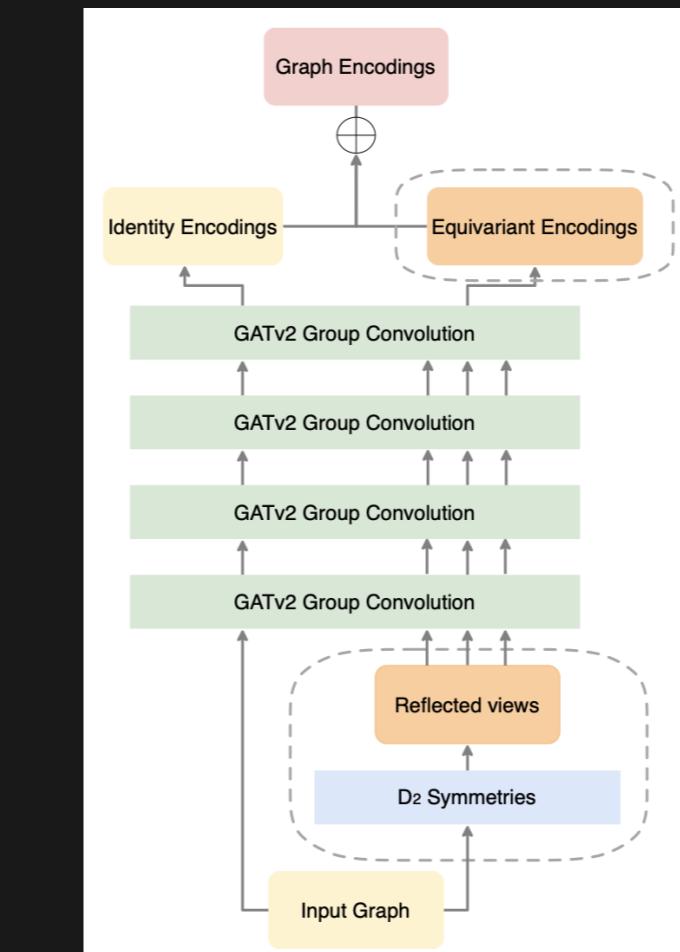
- Deep Reinforcement Learning (DRL) for corner strategies
- Focus on player actions
- Maximizing corner success rates



AI Techniques Used: GATv2



how TacticAI processes a given corner kick



The encoder architecture of TacticAI's predictive and generative component models

Architecture :

- Convolutional GATv2 (Graph Attention Network)
- The encoder

Input :

- Each player's position
- Each player action
- ...



Advantages and disadvantages of using AI in match analysis

Advantages :

- Optimization of strategies
- Time-saving
- Equal access to strategy

Disadvantages :

- Dehumanization of performance
- Elimination of analyst roles
- Decreased audience interest
- Financial cost



Do you have any questions ?

Le football il
a changé

