Levers sings parties Levers sings parties For Sure cess

By: Jamal Mungo and Harrison Buck

The NFL and the Baltimore Ravens: A Brief History

NFL Overview:

- The National Football League (NFL) is the top professional American football league, founded in 1920.
- Known for its high-impact, strategic gameplay and immense fanbase.

Baltimore Ravens Overview:

- Established in 1996 after Art Modell relocated the Cleveland Browns.
- Two-time Super Bowl champions (2000 and 2012).
- Renowned for their defensive legacy and forward-thinking approach to analytics.



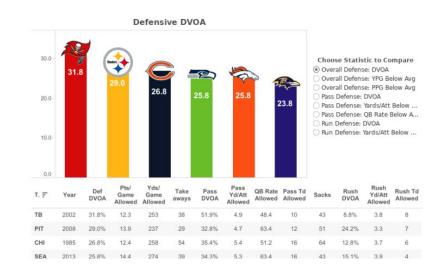
Technologies Powering the Ravens

Wearable Devices: GPS trackers and accelerometers measure player speed, workload, and fatigue during practice and games.

Player Tracking Systems: Zebra Technologies chips in footballs and shoulder pads for real-time tracking of player movement and ball trajectory.

Data Visualization Tools: Microsoft Power BI and Tableau for visualizing play trends and performance data.

Machine Learning Models: Al algorithms predict opponent tendencies, optimize play-calling, and analyze player performance.



How Analytics Drive Success for the Ravens

Performance Improvements:

- Tailored training regimens for players to reduce injury risks.
- Enhanced scouting through advanced metrics like EPA (Expected Points Added).

• Strategic Innovations:

- Analytics influence game decisions like 4th-down conversions (famous for aggressive play-calling under Coach John Harbaugh).
- Development of innovative defensive schemes.

Fan Engagement:

- Interactive apps providing real-time stats during games.
- Social media campaigns using analytics to enhance fan experience.



The Role of Analytics in Modern Football

Transforming the Sport:

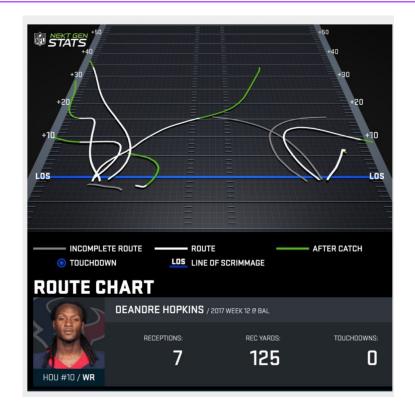
- Analytics have redefined how teams scout, train, and strategize.
- Example: Shift towards pass-heavy offenses due to data-driven insights.

Trends and Innovations:

- Use of computer vision to analyze film faster.
- Increasing reliance on AI for injury prediction.

Impact on Competitive Balance:

- Smaller-market teams like the Ravens gain an edge through data-driven decision-making.
- Fans enjoy deeper engagement with advanced stats and visualizations.



Partnerships and Collaborations

Key Partnerships:

- Collaboration with Zebra Technologies for tracking and data collection.
- Partnered with analytics firms like Stats Perform and Pro Football Focus (PFF).

Impact of Partnerships:

- Advanced player evaluations and injury prevention strategies.
- Enhanced fan experience through NFL Next Gen Stats.





