**Report: Football Strategy Dashboard**

**Dashboard Overview:**

This dashboard, titled **Smart Tactics: Football Strategy Dashboard**, provides a comprehensive overview of decision-making scenarios within football strategy. It is designed to help users gain insights into various tactical decisions such as passing, running, kicking a field goal, or punting. By analysing the frequency of decisions, judgments over time, confidence levels, and trusted judgments, the dashboard offers an in-depth look at how decisions are made and their reliability.

The dashboard is built using **Power BI** and features multiple key visualizations, including pie charts, bar graphs, and line charts. It is highly interactive and responsive, making it easy for users to filter data based on **Golden Parameters**, **Antecedents**, and specific **Scenarios**. The dashboard also highlights key metrics like the total number of scenarios, judgments, and average confidence level.

**Key Features and Visualizations:**

1. **Dashboard Title & Filters:**
   * The title, **Smart Tactics: Football Strategy Dashboard**, is prominently displayed in the header section.
   * Filters such as **Golden Parameter**, **Antecedent**, and **Scenario** allow users to slice and dice the data based on specific criteria, adding a layer of interactivity and customization to the analysis.
2. **Frequency of Decisions (Pie Chart):**
   * The pie chart illustrates the distribution of decisions made during football strategy scenarios.
   * The chart segments include:
     + **Pass** (Largest segment): Dominates the decision-making process.
     + **Run**
     + **Kick a field goal**
     + **Punt**
     + **Don’t know / It depends** (Smallest segment): Represents uncertain or ambiguous decisions.
   * This visualization helps users quickly identify which decisions are made most frequently.
3. **Judgments Received by Time (Line Chart):**
   * This line chart tracks the number of judgments made over different times of the day.
   * Notable spikes are observed in certain time frames (e.g., 13:00–15:00), showing a rise in decision activity, likely during critical game times or specific strategy sessions.
   * This visualization allows users to analyze decision patterns over time and see when decision-making is most active.
4. **Key Metrics:**
   * On the right side of the dashboard, there is a summary box displaying important metrics:
     + **Total Scenarios**: 3,730
     + **Total Judgments**: 22,794
     + **Average Confidence**: 0.76
   * These metrics give a quick overview of the dataset's scale and confidence levels, providing context for the visualizations.
5. **Total Trusted Judgments and Frequency by Antecedent (Bar Chart):**
   * This bar chart showcases the frequency of judgments based on antecedents (key factors influencing decisions).
   * **Pass** is the most trusted and frequently judged option, followed by **Run**.
   * Other options like **Kick a field goal** and **Punt** are less frequent but still significant.
   * **Don’t know / It depends** and **Kneel down** have the lowest frequency, indicating they are used less often or in more specific circumstances.
6. **Confidence Levels (Doughnut Chart):**
   * The doughnut chart breaks down the confidence levels of the decision-makers.
   * It is segmented into three categories:
     + **Fully Confident**: Largest section, indicating most decision-makers have full confidence in their judgments.
     + **Quite Confident**
     + **Semi Confident**: Smallest segment, showing there are fewer instances where confidence is low.
   * This chart provides insights into how sure decision-makers are in their chosen strategies.
7. **Confidence by Antecedent (Bar Chart):**
   * This bar chart visualizes the confidence levels across different antecedents (types of decisions).
   * **Pass** and **Run** have the highest confidence levels, followed by **Kick a field goal** and **Punt**.
   * **Don’t know / It depends** and **Kneel down** decisions show significantly lower confidence levels.
   * This visualization highlights the areas where confidence in decision-making is either high or low, allowing stakeholders to focus on improving confidence in certain areas.

**Key Insights:**

1. **Pass is the Most Common Decision:**
   * The **Frequency of Decisions** chart shows that "pass" is the most frequently chosen football tactic. This is consistent with general football strategies, where passing plays a critical role in moving the ball forward.
2. **Spikes in Judgments at Key Times:**
   * The **Judgments Received by Time** chart shows notable peaks in decision-making around specific times (e.g., midday and early afternoon), possibly during team strategy discussions or game simulations. This insight could help coaches and analysts better prepare for critical decision-making periods.
3. **High Confidence in Most Decisions:**
   * The **Confidence Levels** doughnut chart reveals that most decision-makers are fully confident in their choices. This suggests that the majority of football judgments are made with a high degree of certainty, which is essential for effective in-game strategies.
4. **Trusted Judgments Correlate with Common Tactics:**
   * The **Total Trusted Judgments by Antecedent** chart shows that the more frequent a decision (such as passing or running), the more trusted it is. Less common strategies, such as punting or field goals, are associated with lower trust, possibly because they are used in more specific or high-stakes situations.
5. **Areas for Improvement in Confidence:**
   * The **Confidence by Antecedent** chart shows that while most decisions (especially pass and run) have high confidence, strategies like **Punt** and **Kick a field goal** may need more scrutiny or coaching focus to boost decision-makers' confidence in these areas.

**Conclusion:**

This **Football Strategy Dashboard** provides an all-in-one solution for analyzing football decision-making. With its interactive features, visual representations, and in-depth analysis, it offers key stakeholders insights into improving team performance and decision accuracy. The dashboard is not only intuitive and responsive but also allows for detailed filtering, helping users gain tailored insights for strategic planning.

**Future Enhancements** could include real-time updates for live game decisions or the integration of more detailed analytics for specific player-based decisions. This would further enhance its value as a tool for football coaches, analysts, and decision-makers.