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WHITE PAPER

POWERBI

Creating a Power BI dashboard with six Key Performance Indicators (KPIs) can be a rewarding yet time-consuming task. The time required depends on various factors, including data complexity, familiarity with Power BI, and the specific requirements of the KPIs. In this article, we'll break down the process and estimate the time needed for each step.

I. Define KPIs:

- a. Start by identifying the six KPIs you want to track. This involves discussions with stakeholders to ensure the KPIs align with business goals. Defining clear, measurable KPIs is crucial for the success of your dashboard.

II. Prepare Data:

- a. **Data Collection:** Gather data from various sources such as databases, Excel files, or cloud services. This can take a few hours depending on the number of sources.
- b. **Data Cleaning:** Remove duplicates, handle missing values, and ensure data consistency. This step can be time-consuming, especially if the data is messy.
- c. **Data Modeling:** Create relationships between different data tables to ensure accurate analysis. This step requires a good understanding of the data and can take several hours.

III. Import Data:

- a. Open Power BI Desktop.
- b. Use the "Get Data" option to import your data sources.
- c. Transform and load the data into Power BI. This step is relatively quick if the data is well-prepared.

IV. Create KPI Measure:

- a. Use DAX (Data Analysis Expressions) to create measures for each KPI. This involves writing formulas to calculate metrics such as total sales, profit margin, customer satisfaction score, etc.
- b. The time required depends on the complexity of the calculations and your familiarity with DAX.

V. Design the Dashboard:

- a. **Layout:** Plan the layout of your dashboard. Use a grid structure to organize your KPIs.
- b. **Visuals:** Add visuals such as KPI cards, charts, and graphs to represent each KPI.
- c. **Formatting:** Customize the colors, fonts, and styles to make the dashboard visually appealing. This step can be iterative and may take several hours.

VI. Add Interactivity:

- a. **Filters and Slicers:** Add filters and slicers to allow users to interact with the data.
- b. **Drill-Through:** Enable drill-through functionality to provide more detailed insights. This step enhances the user experience and can take a few hours.

VII. Test and Validate:

- a. Ensure the accuracy of your KPIs by validating the data and calculations.
- b. Test the dashboard with different scenarios to ensure it meets user requirements. This step is crucial to ensure the reliability of the dashboard.

VIII. Share the Dashboard:

- a. Publish the dashboard to the Power BI service.
- b. Share it with stakeholders and collaborate on insights. This step is relatively quick but essential for ensuring the dashboard reaches the intended audience.

IX. Estimated Development Timeframe:

Step Description	Min Hours	Max Hours
Define KPIs	1	2
Prepare Data	4	8
Import Data	1	2
Create KPI Measures	2	4
Design the Dashboard	4	6
Add Interactivity	2	3
Test and Validate	2	4
Share the Dashboard	1	2
Total Estimated Time	17	31

Conclusion

Building a Power BI dashboard with six KPIs can take anywhere from 17 to 31 hours, depending on the complexity of the data and the specific requirements. By following these steps, you can create a powerful tool to monitor and improve your business performance.