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**Deliverable 1: Project Proposal**

*The Business Case*

To better understand the fluctuations in the housing market, it is first necessary to analyze the factors that determine a property’s value. Understanding how these factors play into the cost of real estate property, and which factors are significant in raising or lowering a property value, will allow for better estimations on real estate properties. The real estate market is highly dynamic, influenced by economic policies, interest rates, and supply-demand factors. By leveraging historical data, this project aims to: provide insights into market trends; help investors, policymakers, and homebuyers make informed decisions; and forecast future home prices with interpretable predictive models.

*The Business Question*

Our focus is on the question – how can we accurately predict the price of a single-family home?

*The Analytics Question*

In our study, we aim to understand the effect that historical home values, new construction rates, interest rates, and tax policies have on the value of a property. Our analytics question revolves around a quantitative outcome (price) and can be analyzed using quantitative methods, as the data will be numeric.

*The Datasets*

1. Zillow Housing Data
2. Federal Reserve Economic Data
3. IRS Historical Data