1. **Build econometric model with fundamentals (regression/ARIMA)**

Demand=function (price, GDP, substitute price,)

* GDP modelled to follow stock mkt monthly
* Can potentially break down demand more granularly than monthly by using temperature
* Broken down by sector
  + Residential (heating oil)
  + Commercial (diesel/heating oil)
  + Industrial (heating oil/diesel)
  + Vehicle
  + Electric (renewable, coal)

1. **Build machine learning model to predict demand**

**Project Breakdown:**

1. Map
   1. Production by state over time
   2. Consumption by state over time
   3. US infrastructure (pipelines)
2. Dashboard
   1. US production over time
   2. US consumption over time
      1. By sector
   3. Natural Gas Prices over time
3. Presentation
   1. Data exploration
   2. Feature engineering
   3. SARIMAX
   4. Machine Learning
   5. Neural networks
4. Dashboard (final results)
   1. Final results