

Fairfax County Accessible Housing

Problem 2 – Team House Guides

Current Situation and Pain point

How can we harness data to help connect residents in ways that are faster, efficient, and accurate to foster better matches and success?

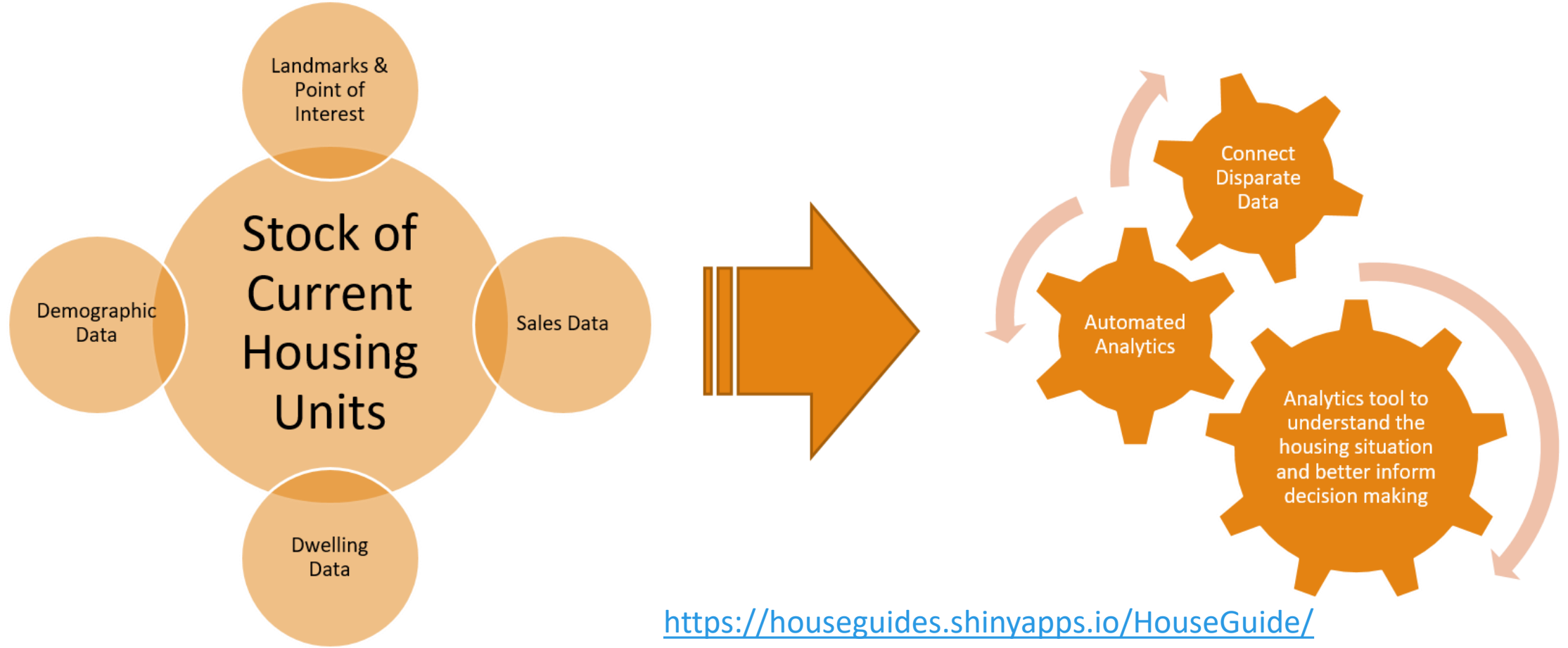
Current Issues

- Insufficient information on where individuals reside that might be open to home sharing
- Disparate data makes analysis difficult
- No robust analytical methods to take existing data and ask questions of it

Benefits of Solving the Problem

- Older populations can reside in their homes longer while providing more affordable housing for younger people
- Allows residents to connect with each other for better housing options

High Level Approach



<https://houseguides.shinyapps.io/HouseGuide/>

Resulting Application

Home Sharing Recommendation Engine

- Recommends affordable home sharing options for those searching for this arrangement
- Uses multiple sources of data to identify the neighborhoods/areas that match needed criteria
- RShiny app deployed to visualize results and explore areas of interest

Technology Used

- QGIS – for initial exploration and analysis of GIS data
- R – our analytics engine
- RShiny – for communicating and distributing our analysis