



# End-to-end Analytics Data Pipeline Design for the Real Estate Market of Armenia

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## Problem



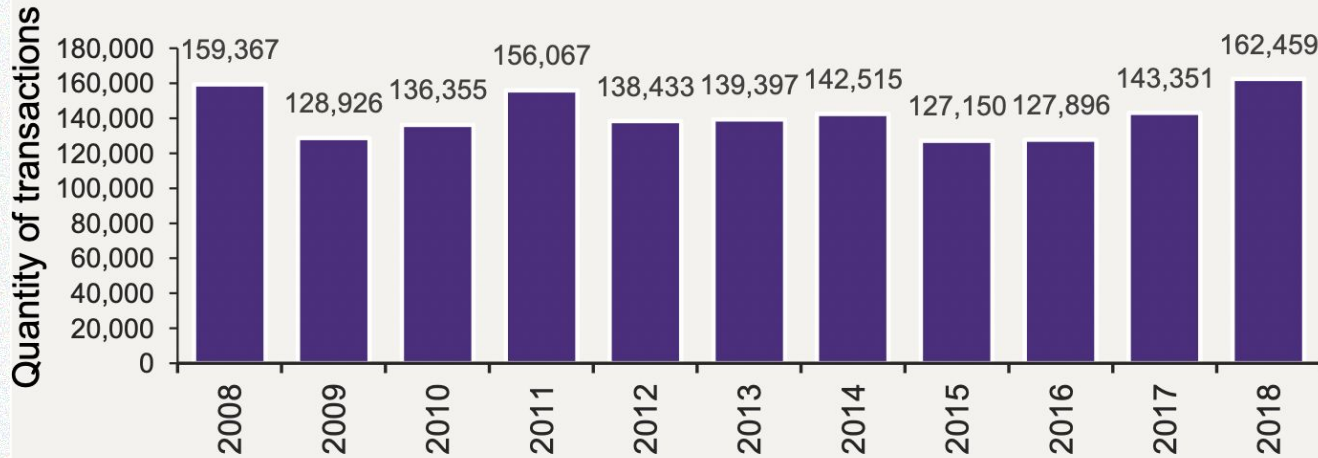
- Data generated by commercial real estate agencies continues to grow.
- No existing data warehouse for storing real estate listings of Armenia.

## Stakeholders

- Real Estate Agencies



## Total real estate transactions by years



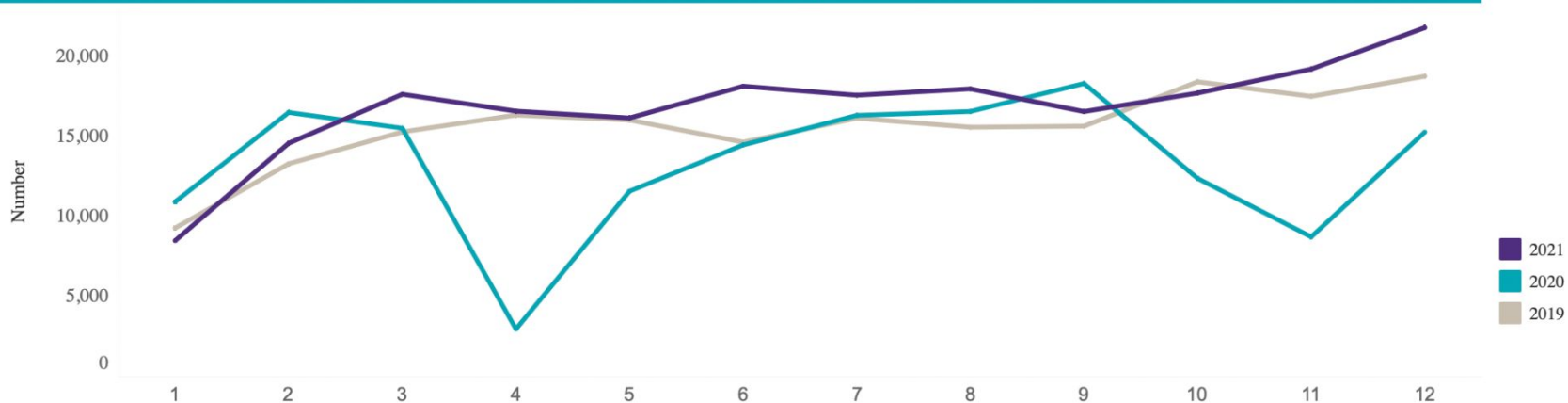
Source: [www.armstat.am](http://www.armstat.am) , [www.cadastre.am](http://www.cadastre.am)





## Analysis of Armenian real estate market, 2019-2021 by [Grant Thornton Consulting CJSC](#)

Real estate transactions, None







## Problem



- Data generated by commercial real estate agencies continues to grow.
- No existing data warehouse for storing real estate listings of Armenia.

## Stakeholders

- Real Estate Agencies



# AIM ✨



- Create an end-to-end analytics data pipeline design for storing the listings of the real estate market of Armenia
- Develop a workable concept that demonstrates how to make access to information about real estate easier, quicker, and efficient

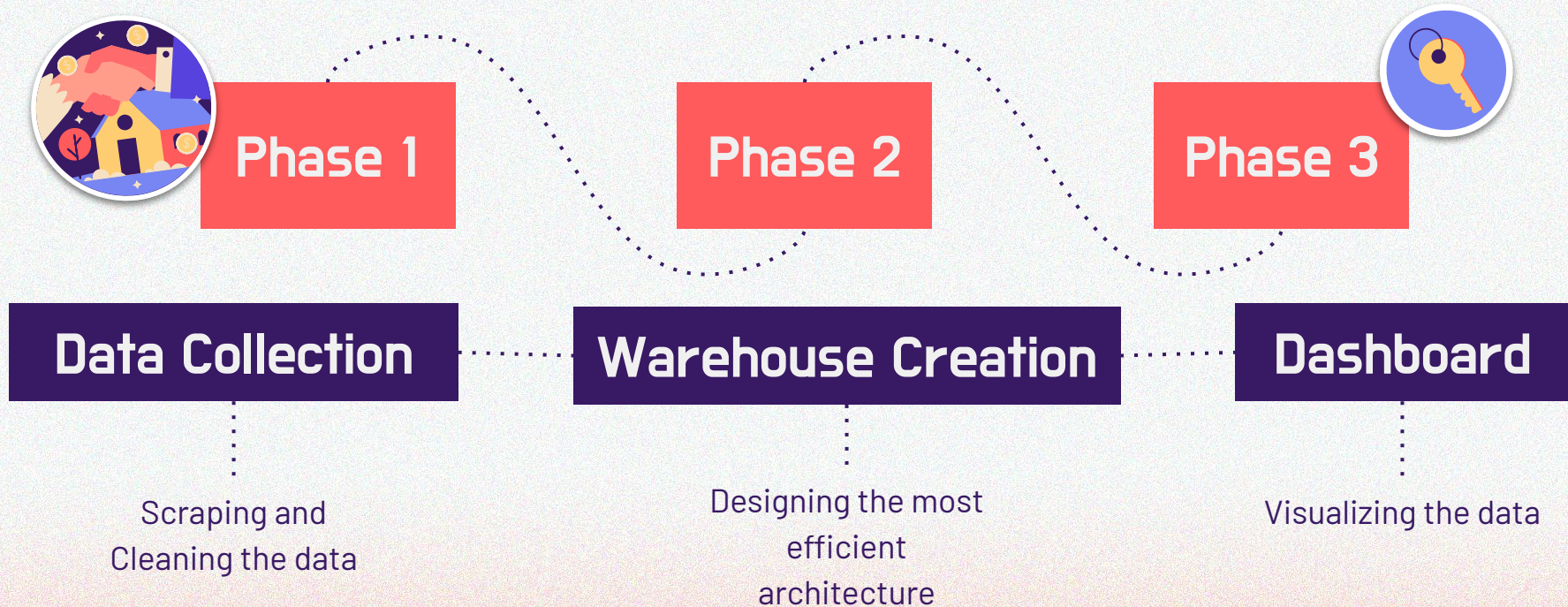


# Main Tools





# Stages of the Project

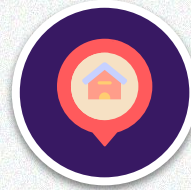




# ✦ Data Collection



Myrealty.am

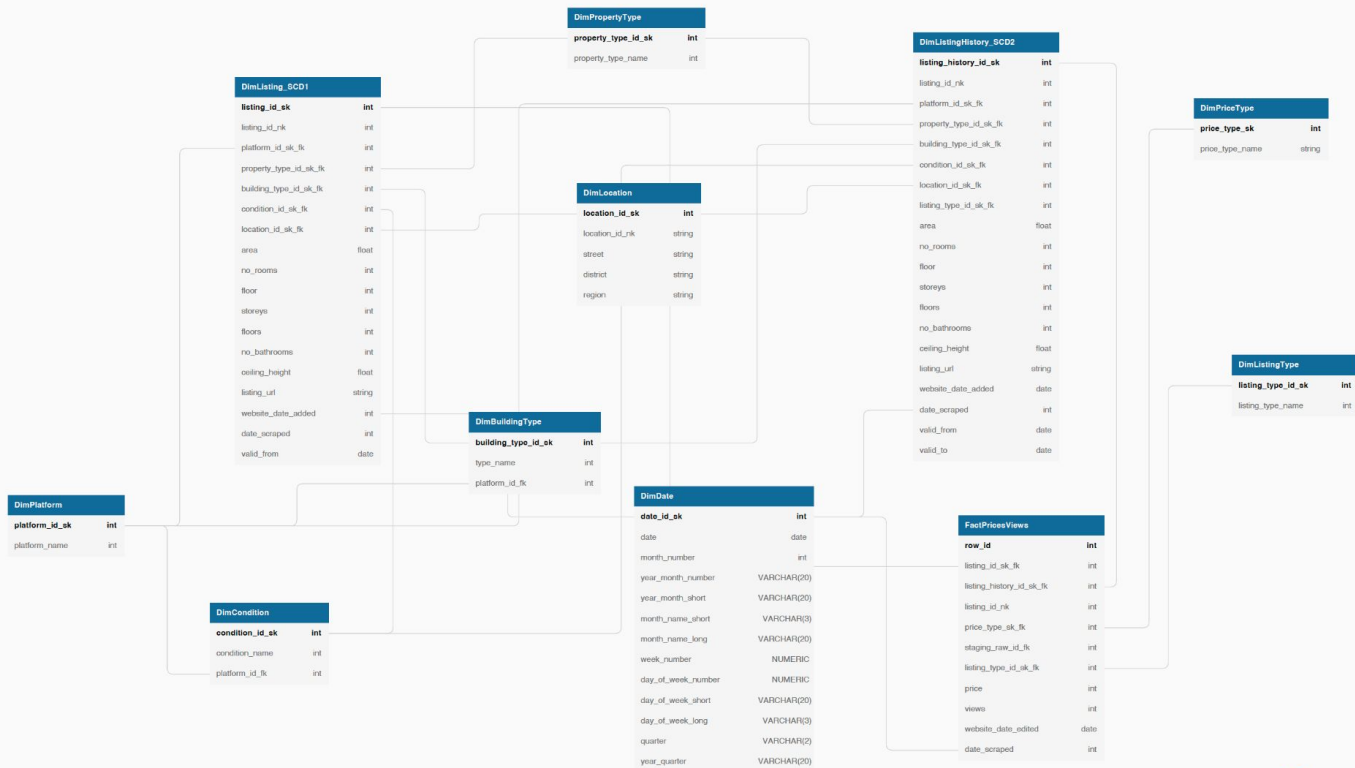


Bars.am



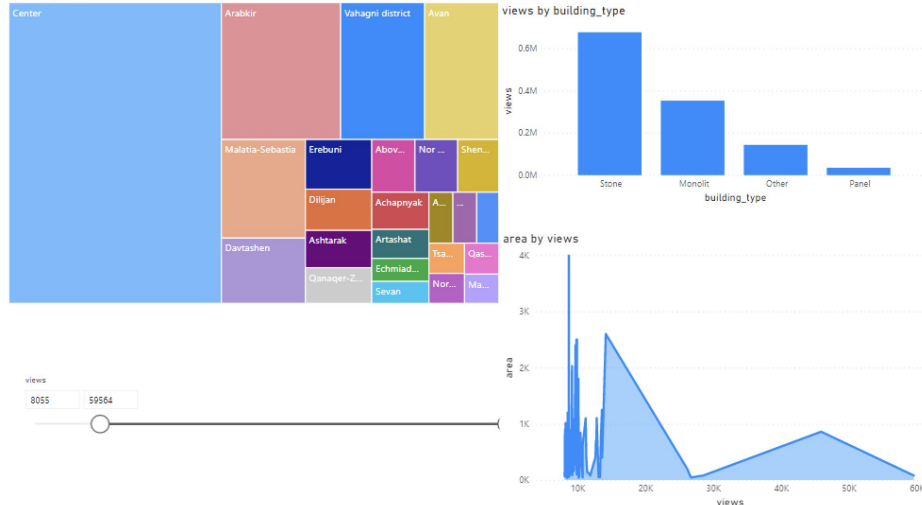


# Warehouse Creation: General Structure





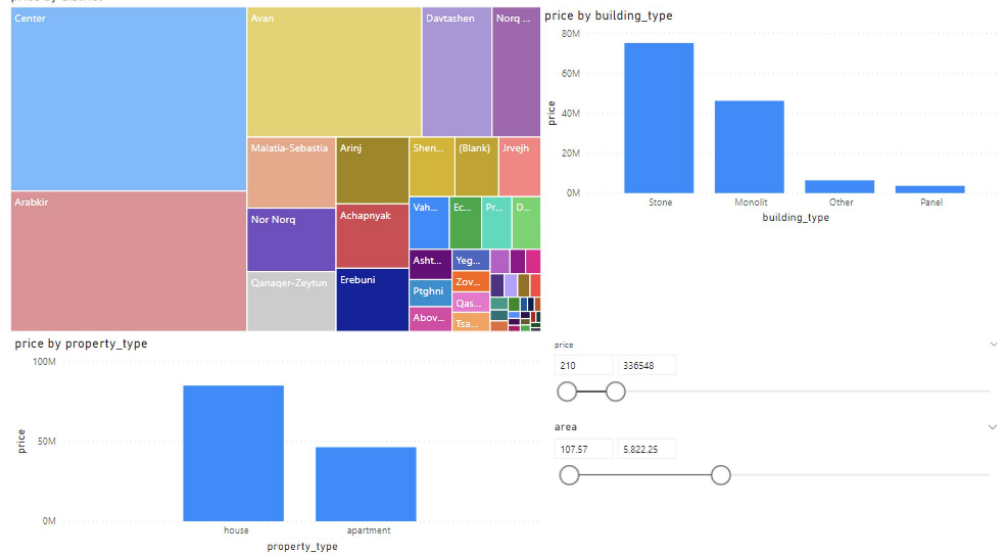
views by district



# Dashboard



price by district



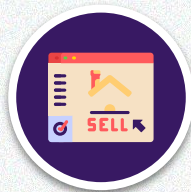


## Further Improvements



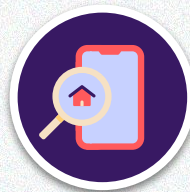
### Expand the Scope

Scrape more websites to  
get a better picture



### Integrate with ML

ML algorithm can not only  
help to better clean and filter  
the data but could also be  
used to do predictions of  
prices and popularity



### Complex Dashboard

Create a dashboard based  
on the business  
requirements of a given real  
estate agency





**Takeaways**





**Thank you!**

