

# ANALYSING HOUSING PRICES IN METROPOLITAN AREAS OF INDIA



**DEPARTMENT OF PHYSICS  
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THOOTHUKUDI  
COLLEGE CODE MSU: 223**

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**(ASSISTANT PROFESSOR)**

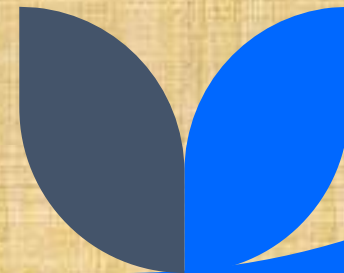
**SUBMITTED BY:**

<b>SARAVANA KARTHIKEYAN K</b>	<b>20212231522135</b>
<b>SHANMUGA RAJ A</b>	<b>20212231522138</b>
<b>SHANMUGA RAJ M</b>	<b>20212231522139</b>
<b>SUNDHAR RAJ G</b>	<b>20212231522143</b>
<b>NITHISH KANNAN C</b>	<b>20212231522127</b>

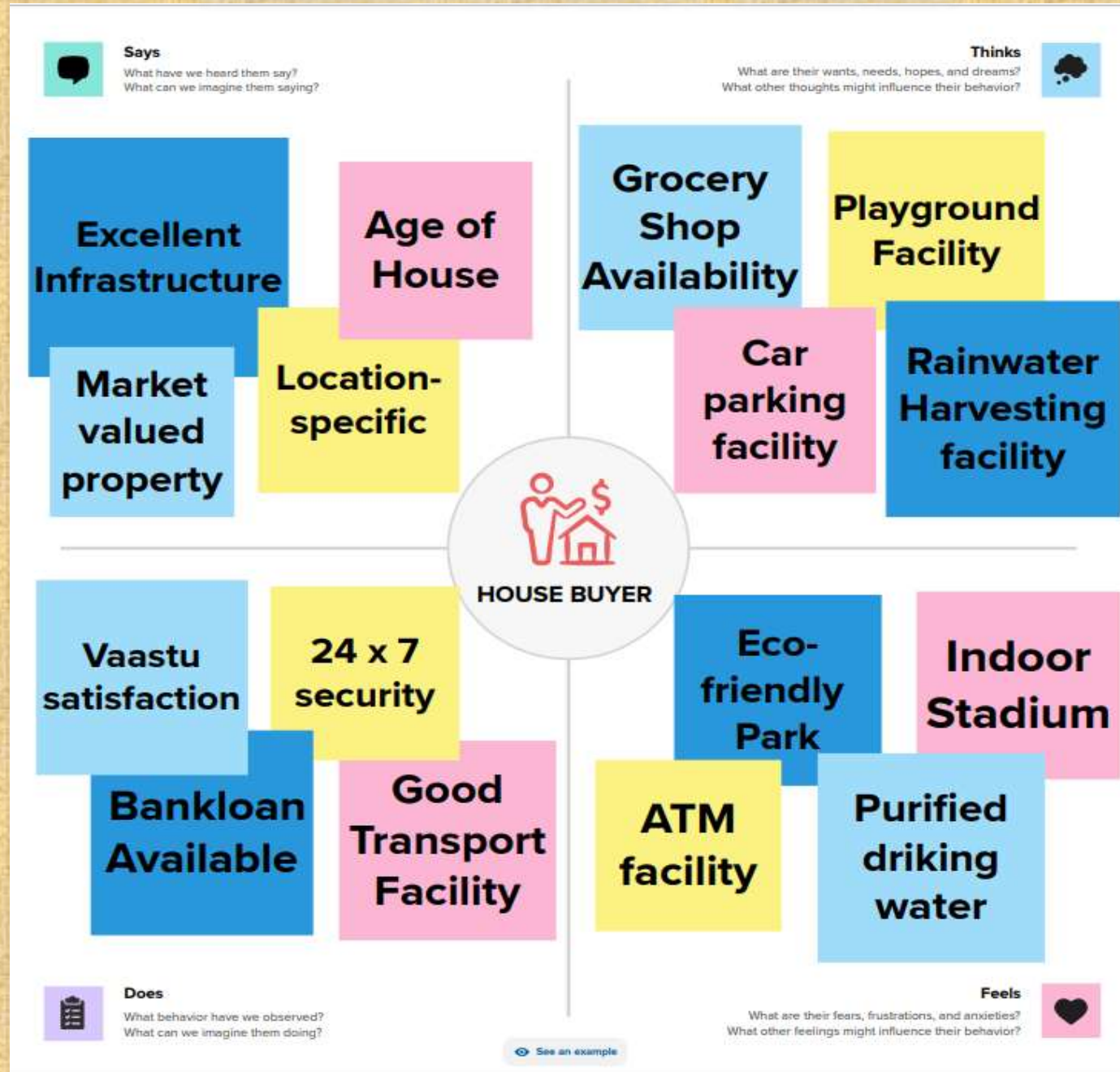


# **INTRODUCTION:**

**House price prediction in a metropolitan city in India is a valuable solution for potential home buyers, real estate agents, and investors. By leveraging historical sales data, property details, and location-specific information, a predictive model can accurately estimate house prices. The model's scalability, real-time updates, user-friendly interface, and transparency ensure it meets the needs of stakeholders. Integration capability, data privacy, and cost-effectiveness are also important considerations. By addressing these requirements, the prediction model provides reliable insights, empowering stakeholders to make informed decisions in the fast-paced real estate market.**



# EMPATHY MAP





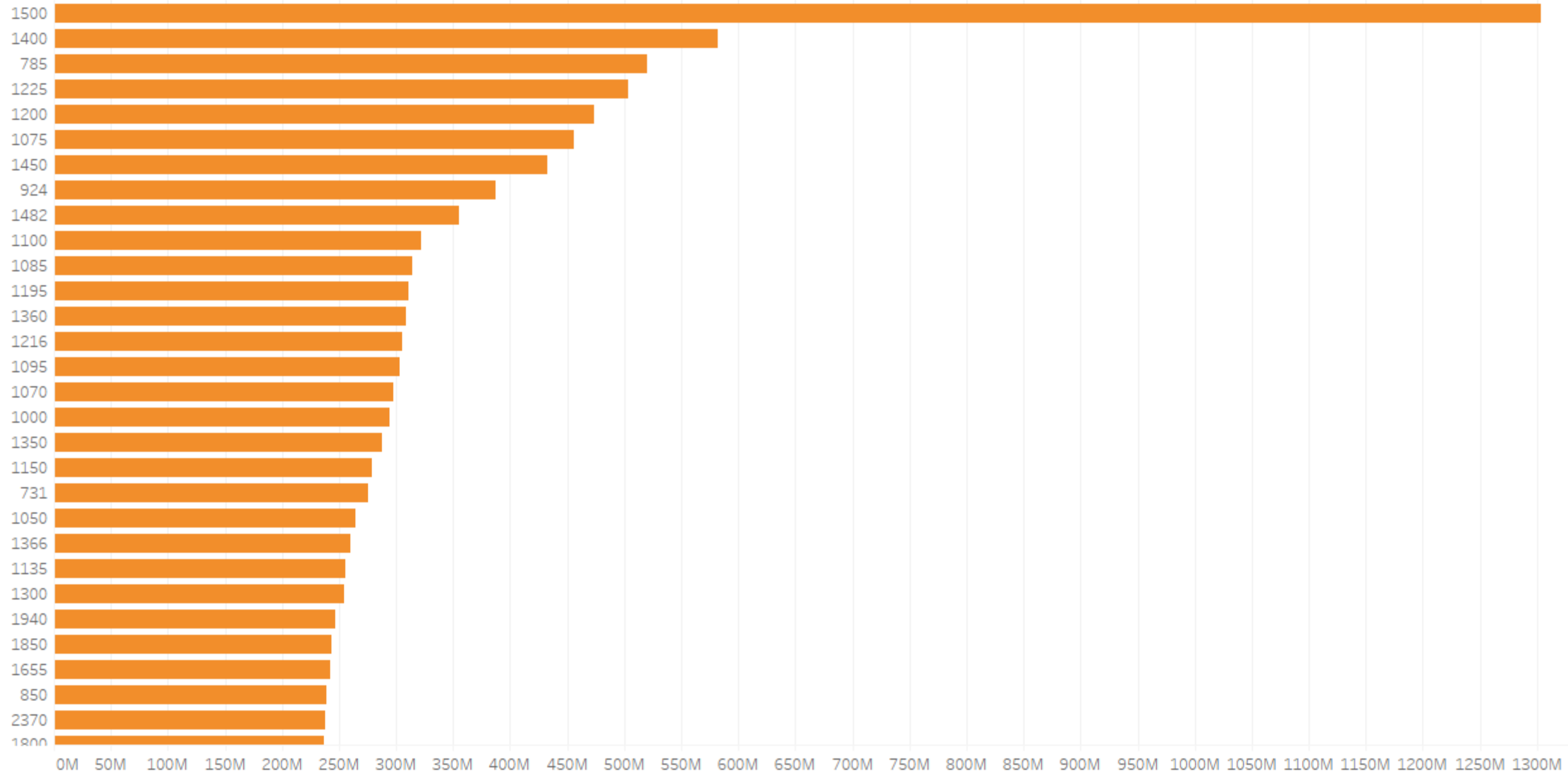


## Latitude and Longitude based on Location



# Number of houses based on area in sqf

Area1



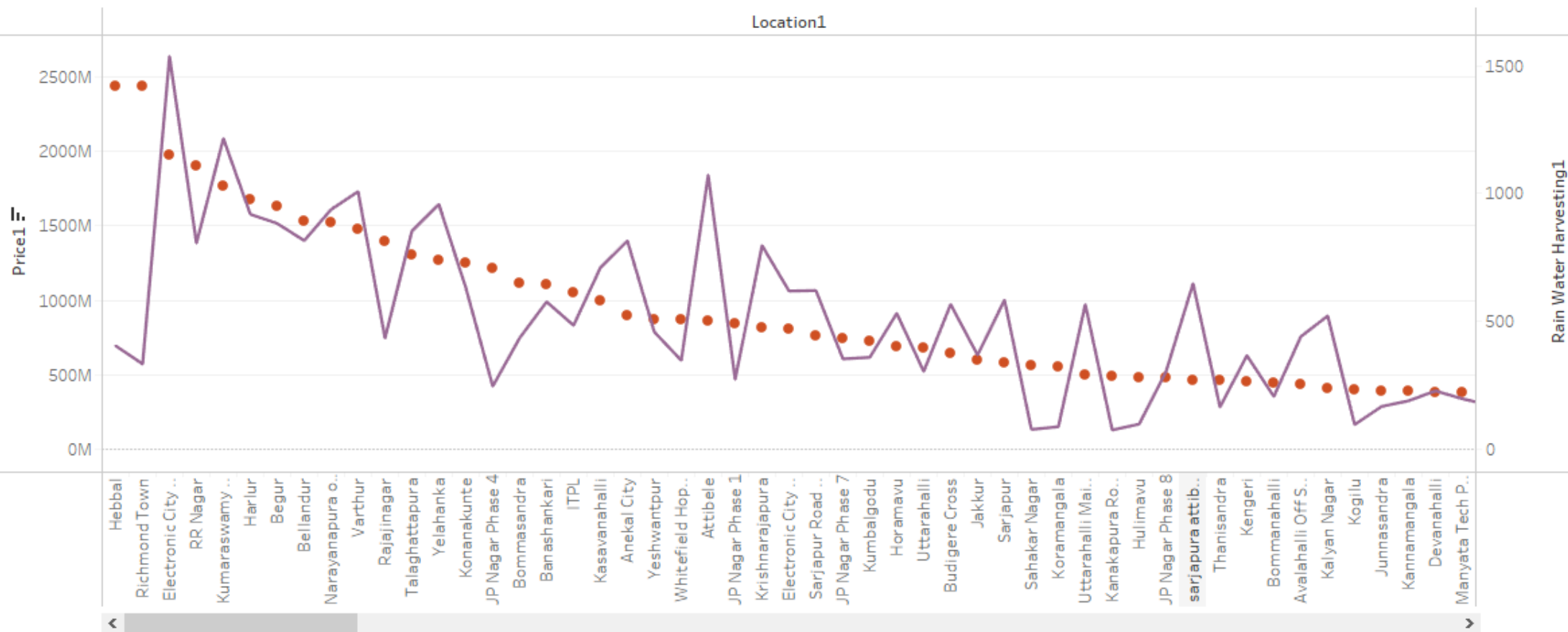
Price1

# Houses price based on rainwater harvest pits

Measure Names

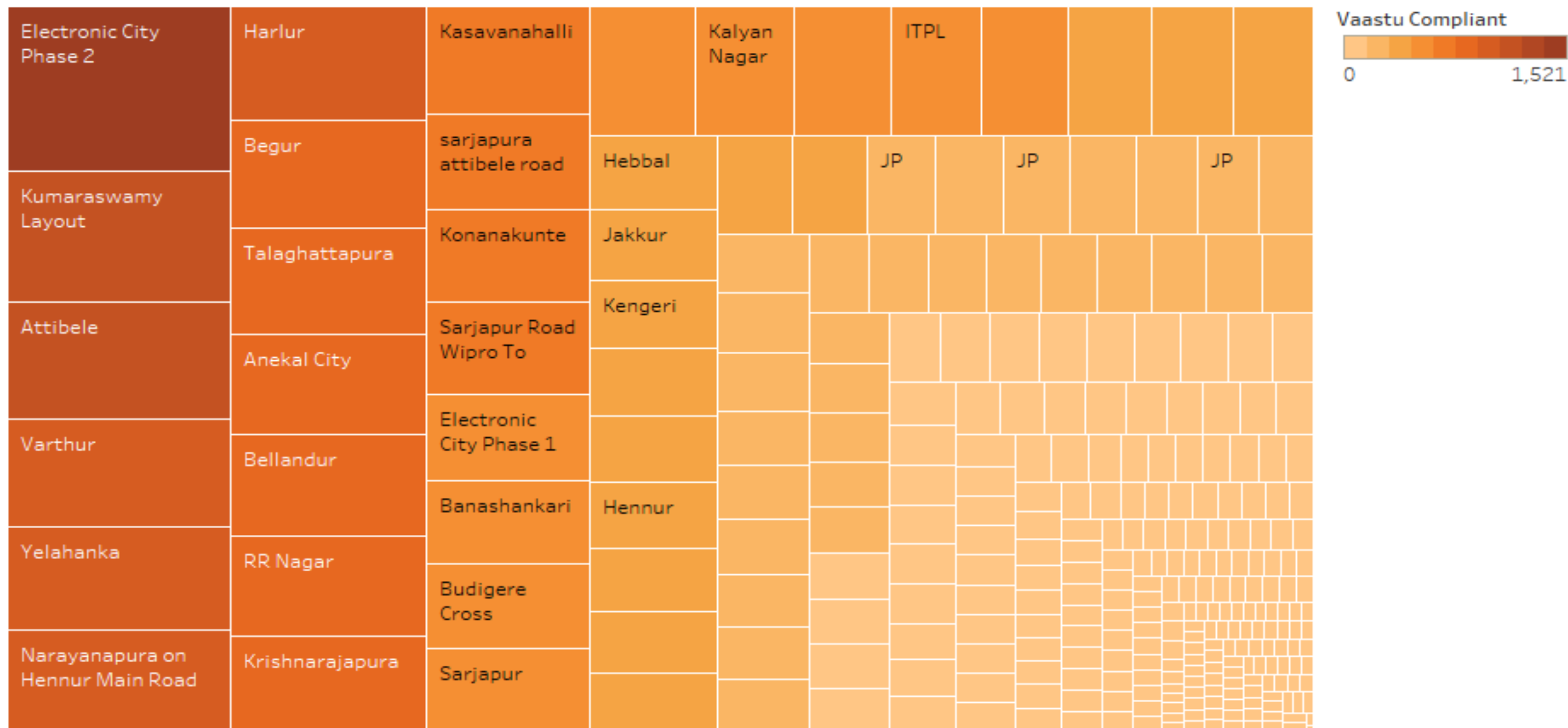
Price1

Rain Water Harvesting1





## Vastu-complains based on location



Location1. Color shows sum of Vaastu Compliant. Size shows sum of Vaastu Compliant. The marks are labeled by Location1. The view is filtered on Location1, which keeps 302 of 302 members.

# House price based on Number of Bedrooms

Location1

Area1

ATTR(No. of Bedrooms)

1

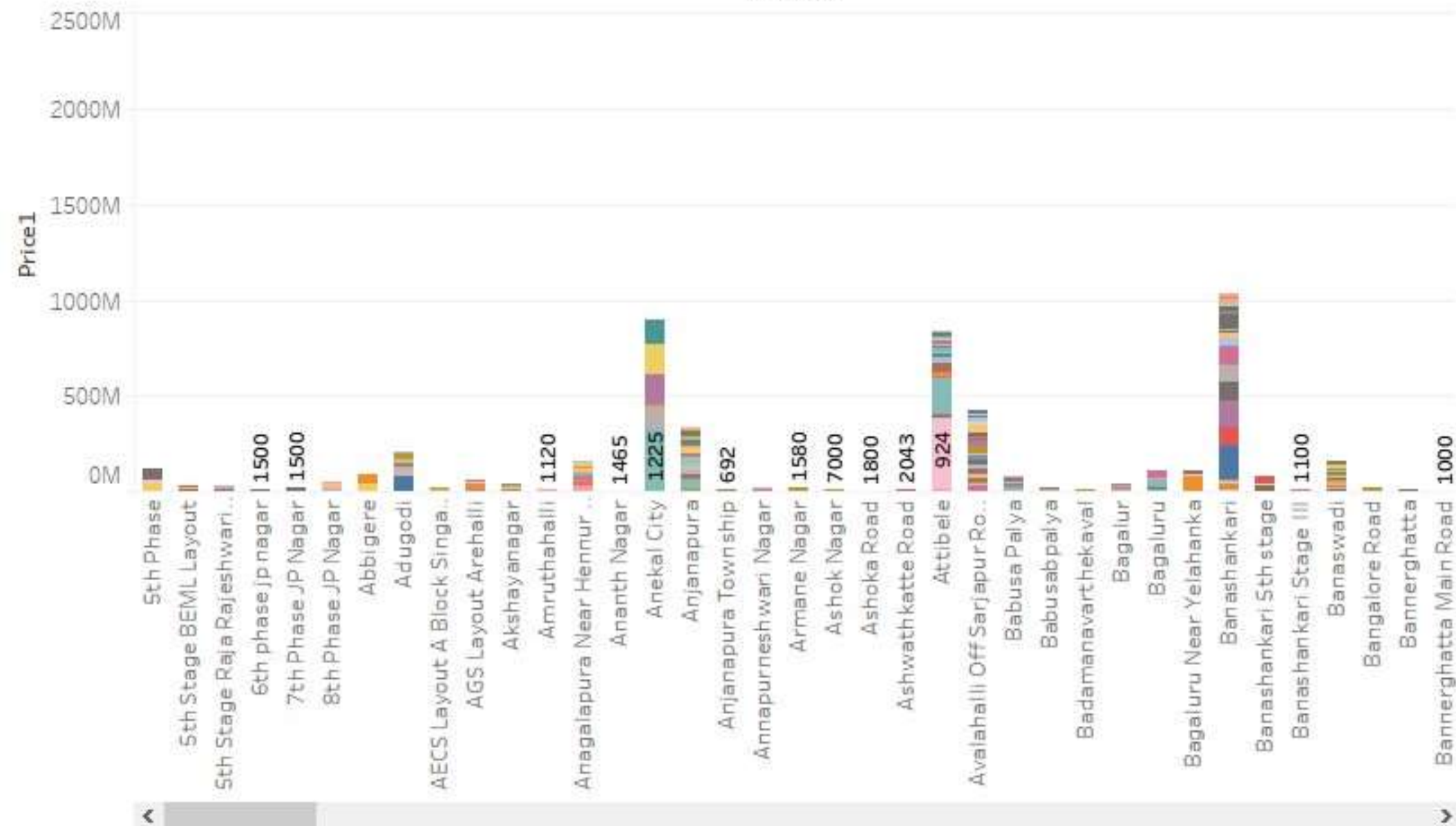


4

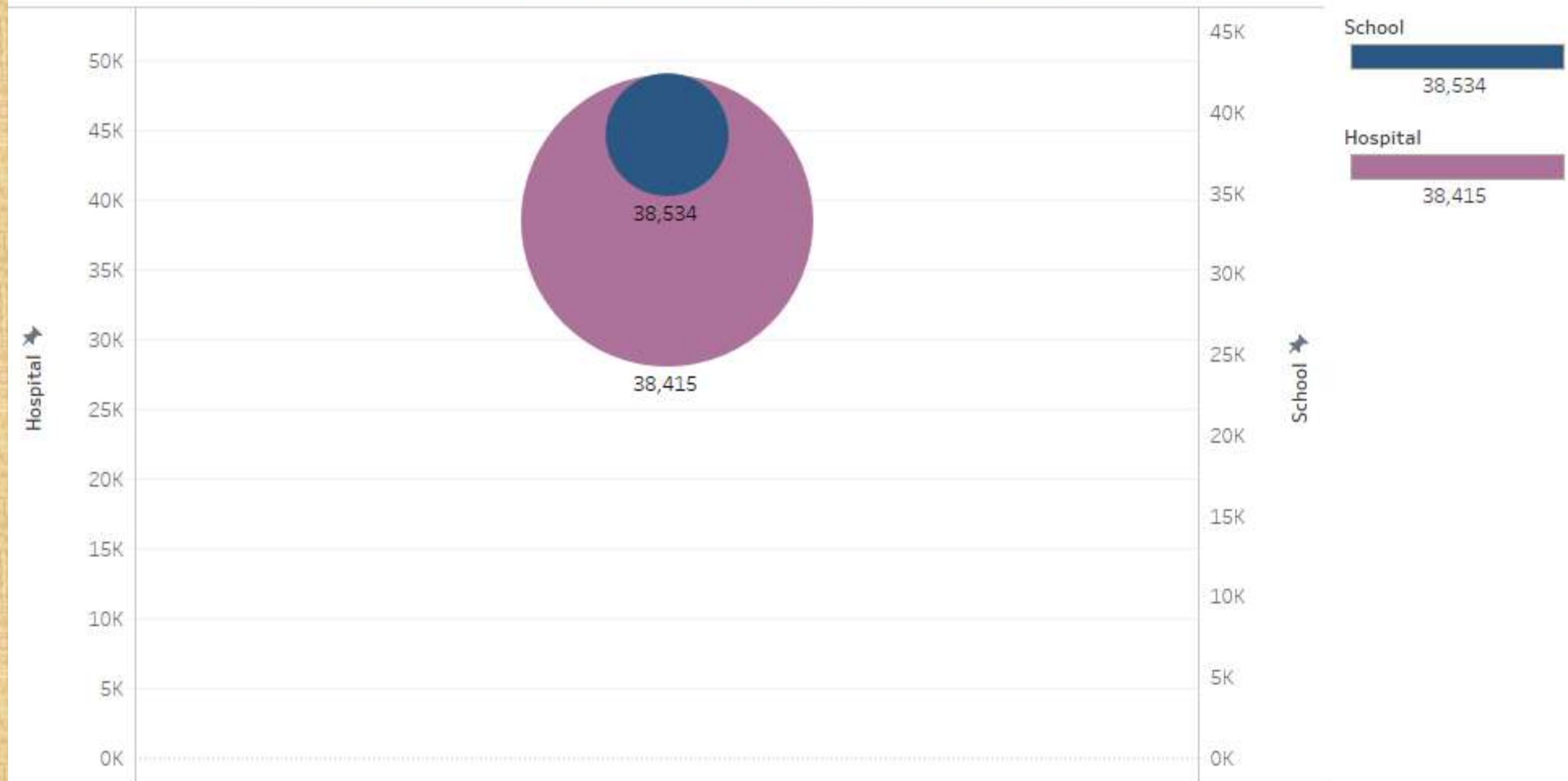
Values in Range and ..

Area1

- 415
- 427
- 430
- 435
- 445
- 486
- 525
- 540
- 550
- 605
- 611
- 618
- 620
- 634
- 649
- 672



## Hospitals and schools near the Houses



Sum of Hospital and sum of School. For pane Sum of School: Color shows sum of School. The marks are labeled by sum of School. For pane Sum of Hospital: Color shows sum of Hospital. The marks are labeled by sum of Hospital. The data is filtered on Price1 and Location1. The Price1 filter ranges from 2000000 to 300000000. The Location1 filter keeps 302 of 302 members.

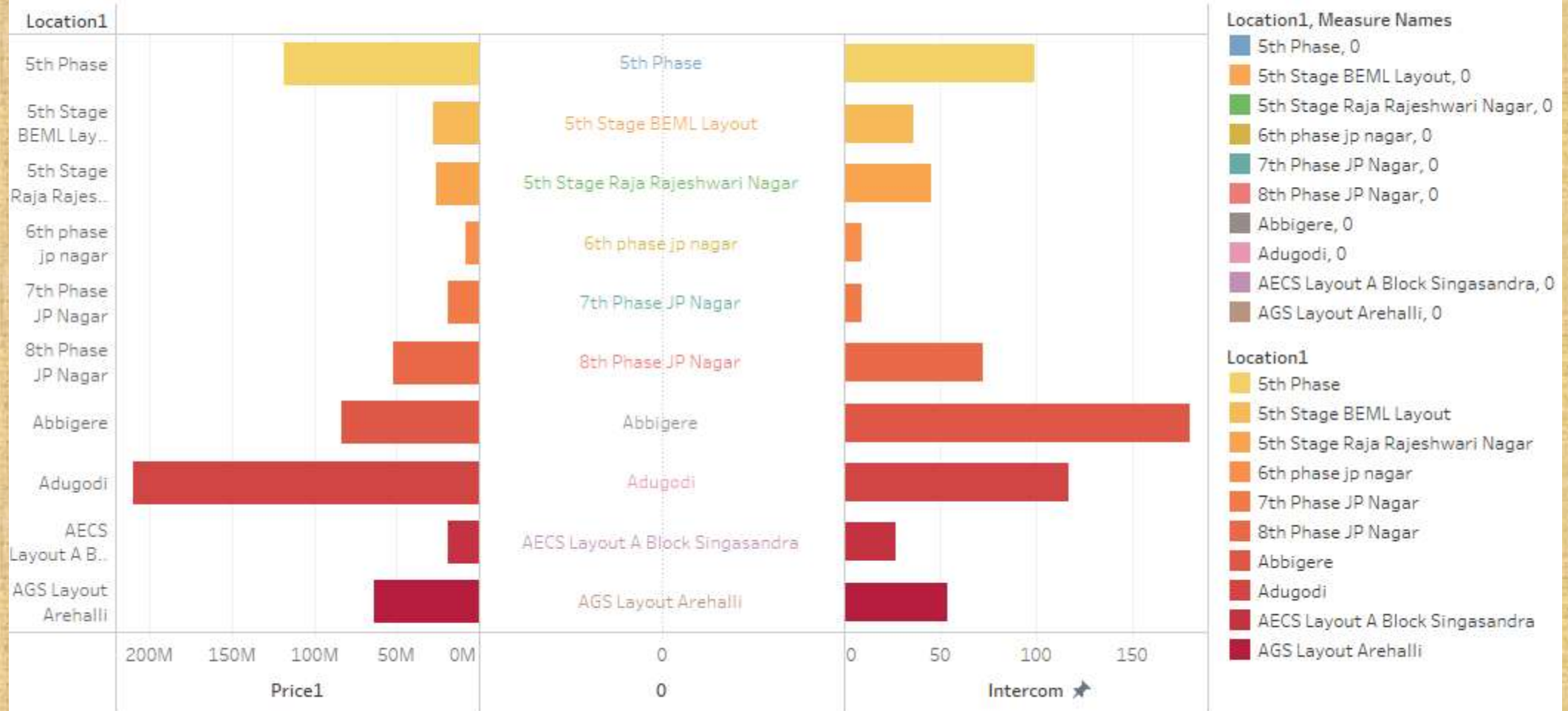


## Maintains staff in houses prices



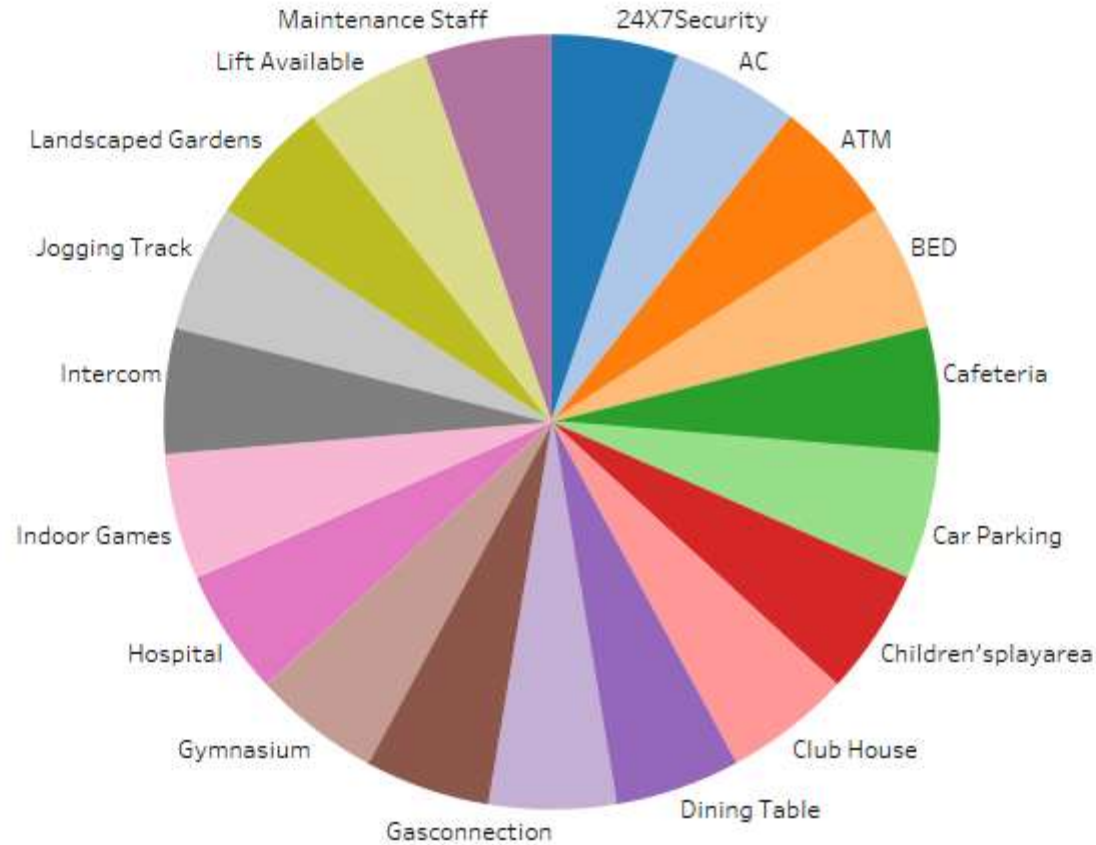
Maintenance Staff and Price1. Color shows details about Maintenance Staff and Price1. For pane Sum of Maintenance Staff: The marks are labeled by Maintenance Staff. For pane Sum of Price1: The marks are labeled by sum of Price1. The data is filtered on Maintenance Staff, which ranges from 0 to 9.

## House Price and Intercom



Price1, 0 and Intercom for each Location1. Color shows details about Location1. Details are shown for Price1, 0 and Intercom. For pane Sum of 0: Color shows details about Location1, Price1, 0 and Intercom. The view is filtered on Location1, which keeps 10 of 302 members.

## All Services based on Locations



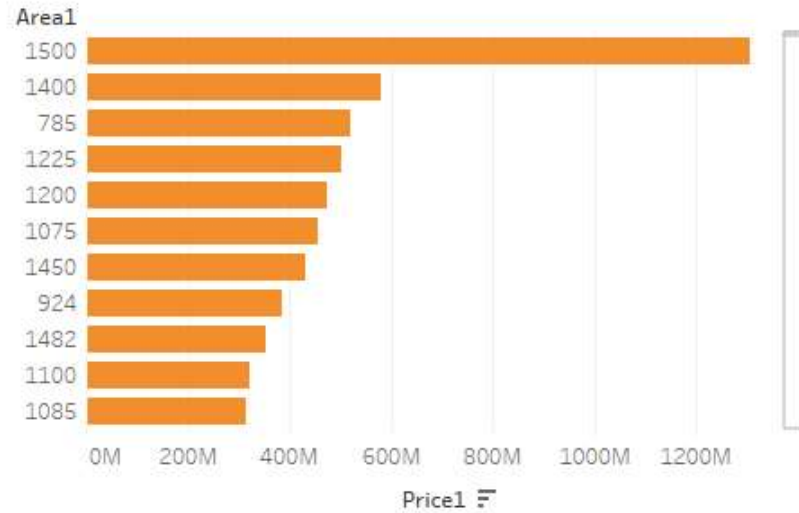
24X7Security, AC, ATM, BED, Cafeteria, Car Parking, Children'splayarea, Club House, Dining Table, Gasconnection, Golf Course, Gymnasium, Hospital, Indoor Games, Intercom, Jogging Track, Landscaped Gardens, Lift Available and Maintenance Staff. Color shows details about 24X7Security, AC, ATM, BED, Cafeteria, Car Parking, Children'splayarea, Club House, Dining Table, Gasconnection, Golf Course, Gymnasium, Hospital, Indoor Games, Intercom, Jogging Track, Landscaped Gardens, Lift Available and Maintenance Staff. Size shows 24X7Security, AC, ATM, BED, Cafeteria, Car Parking, Children'splayarea, Club House, Dining Table, Gasconnection, Golf Course, Gymnasium, Hospital, Indoor Games, Intercom, Jogging Track, Landscaped Gardens, Lift Available and Maintenance Staff. The marks are labeled by 24X7Security, AC, ATM, BED, Cafeteria, Car Parking, Children'splayarea, Club House, Dining Table, Gasconnection, Golf Course, Gymnasium, Hospital, Indoor Games, Intercom, Jogging Track, Landscaped Gardens, Lift Available and Maintenance Staff. The data is filtered on Location1, which keeps Dwaraka Nagar.



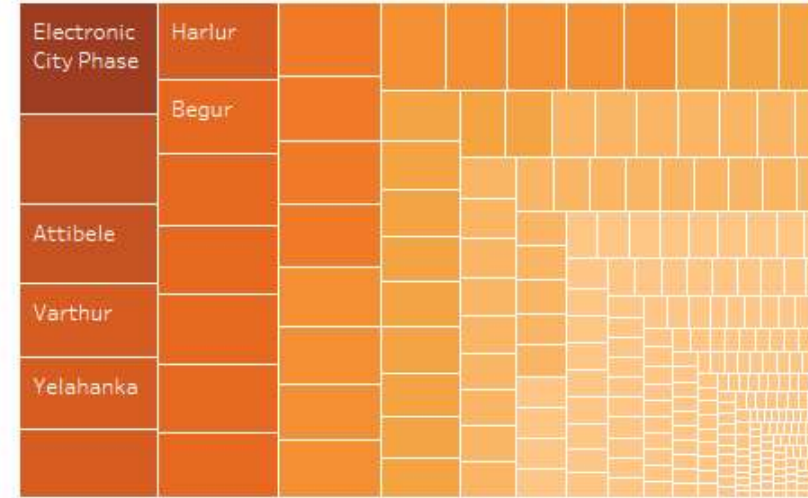
## Latitude and Longitude based on Location



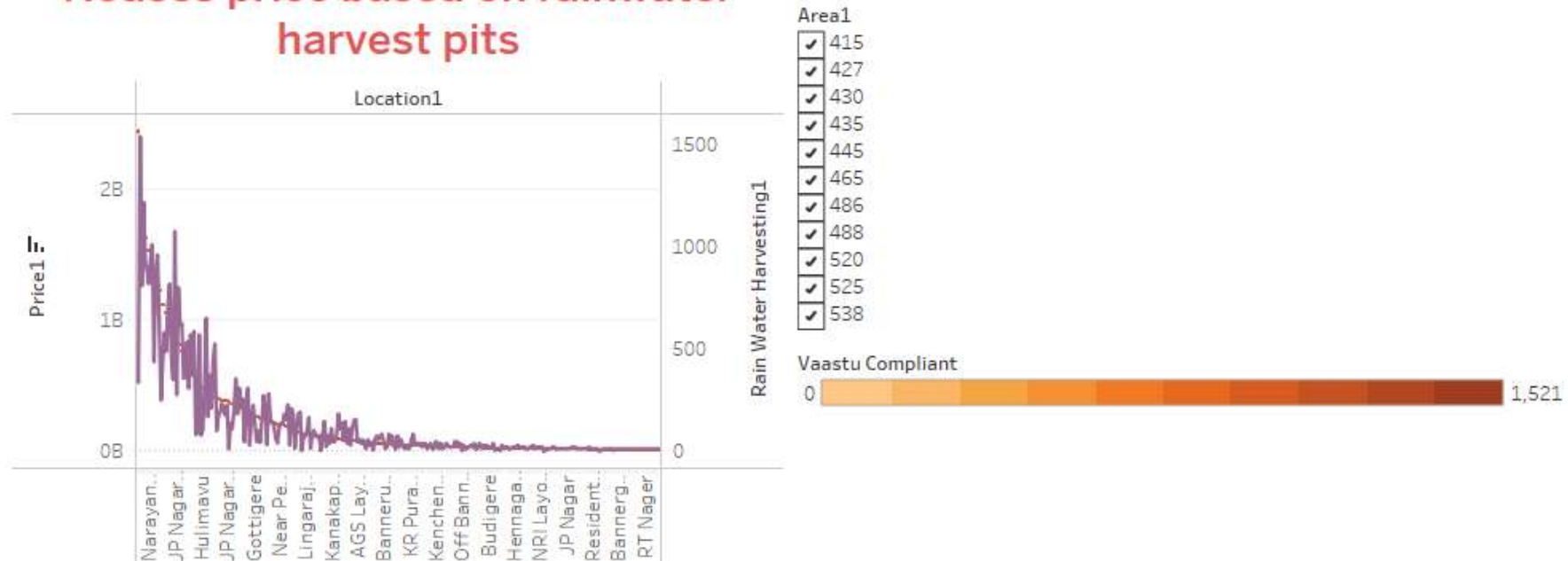
## Number of houses based on area in sqf



## Vastu-complains based on location

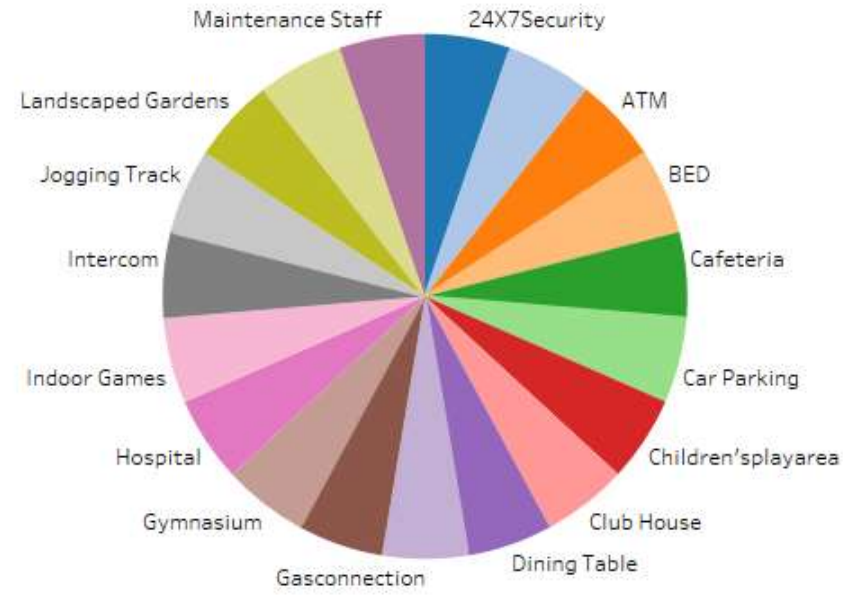


## Houses price based on rainwater harvest pits





## All Services based on Locations

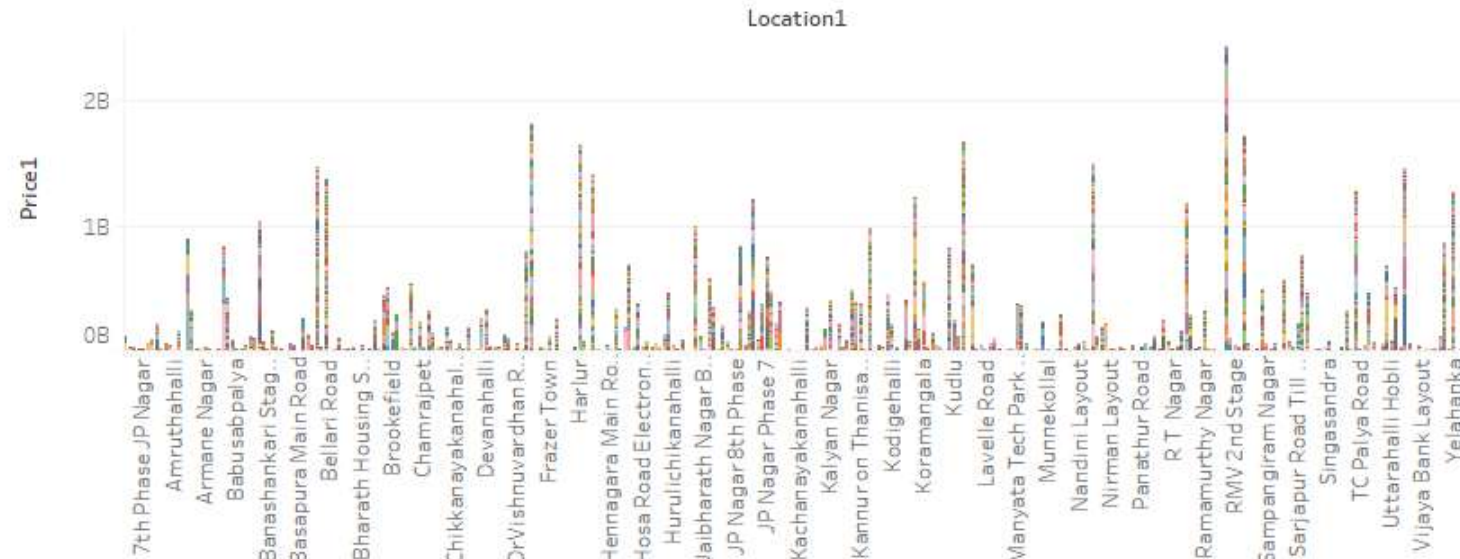


No. of Bedrooms  
1 to 4  
and Null values

Area1

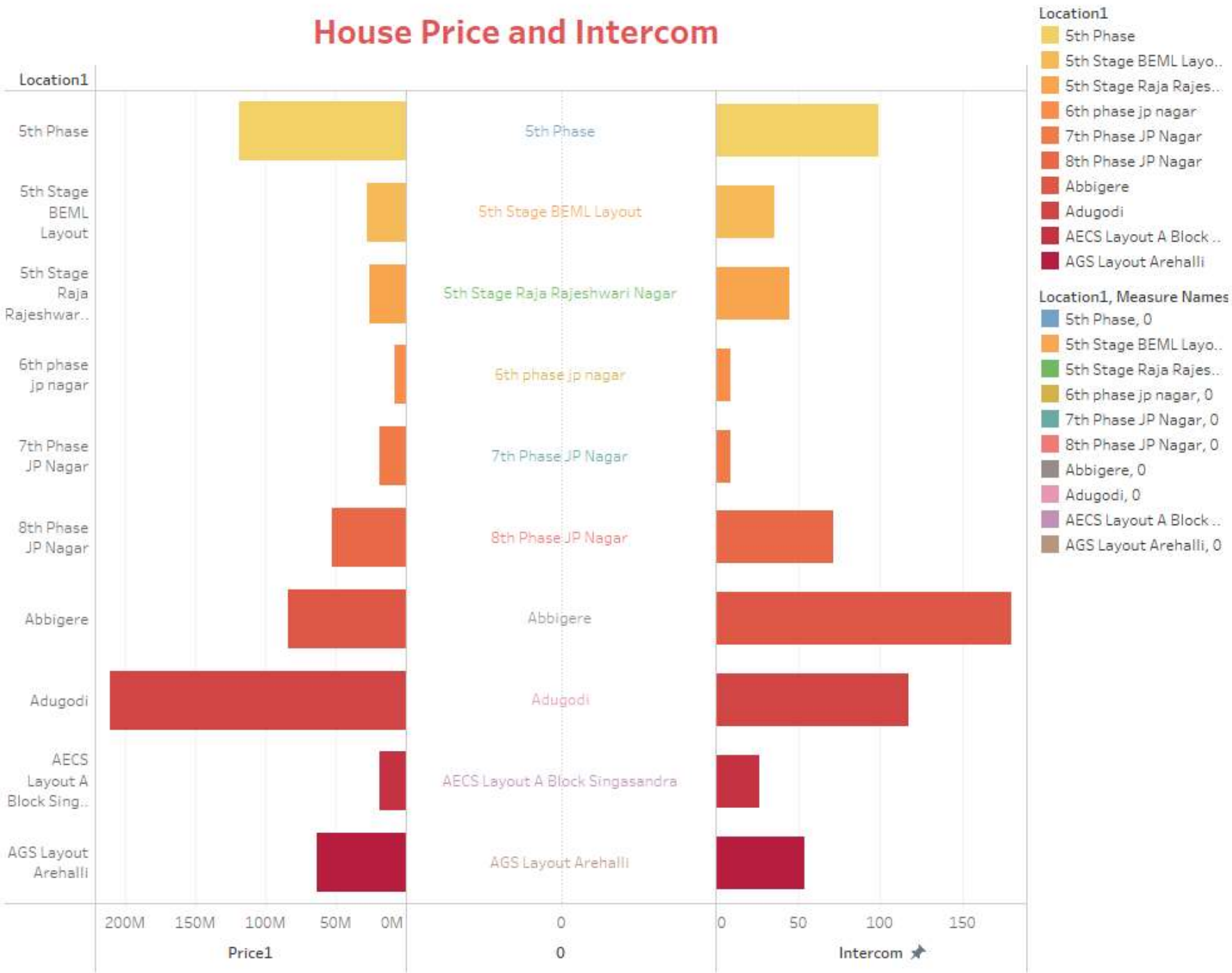
415  
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672  
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743  
763  
776  
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793  
809  
825  
827  
828

## House price based on Number of Bedrooms



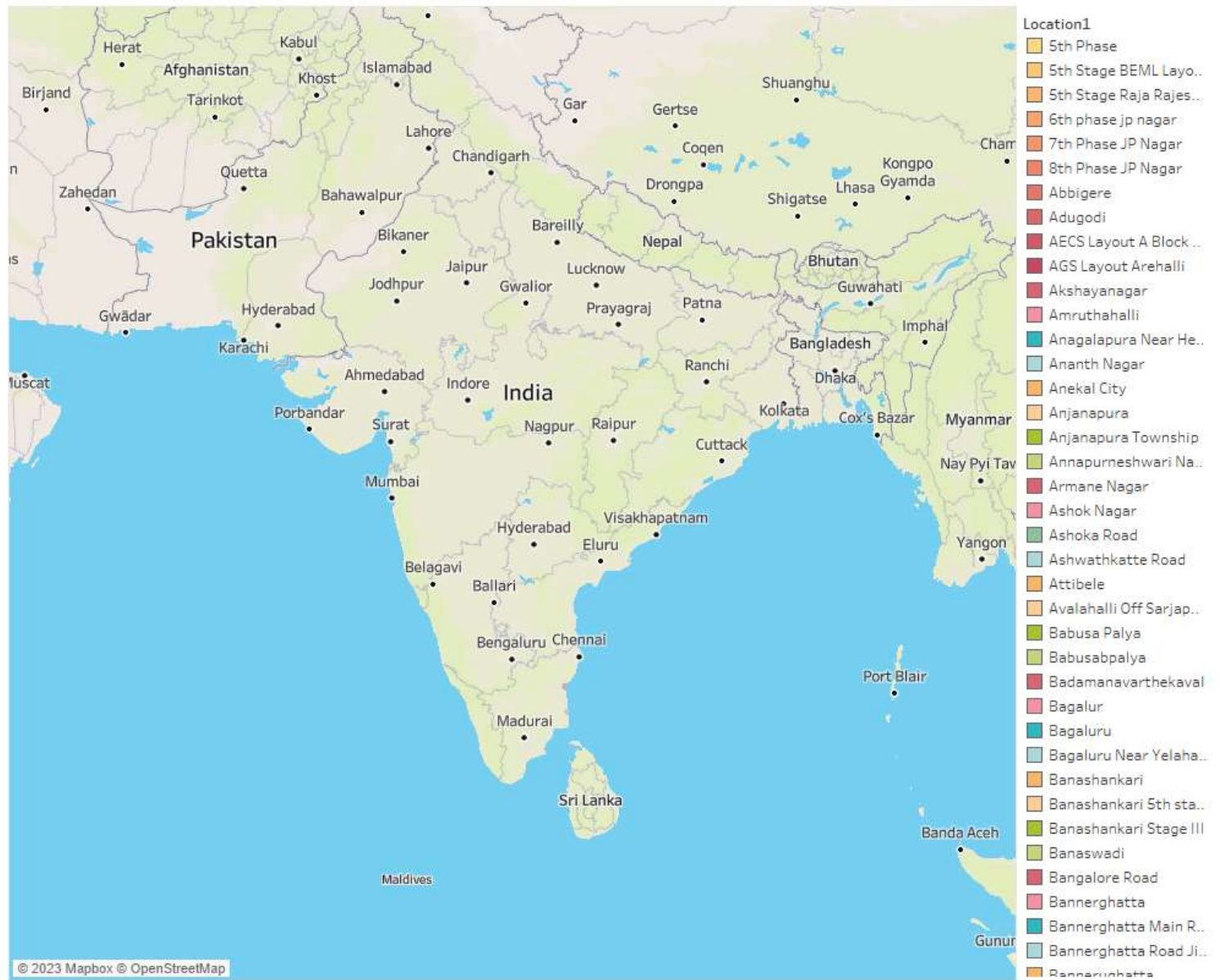


# House Price and Intercom



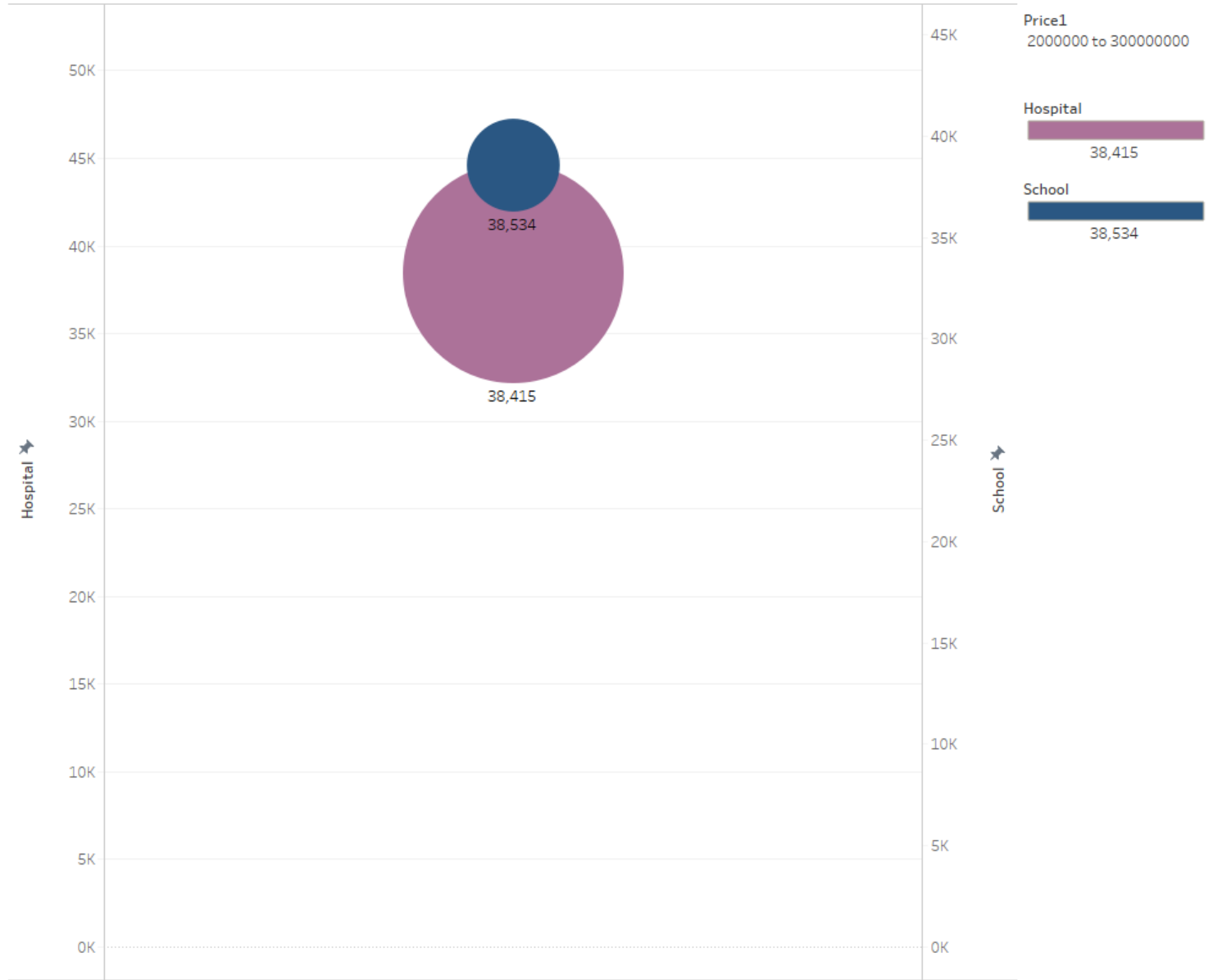
Story 1

Our houses in Metropolitan city	Hospitals and schools near the Houses	Maintains staff in houses prices	House Price and Intercom	All Services based on Locations	House price based on Number of Bedrooms	Vastu-complains based on loc...
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Story 1

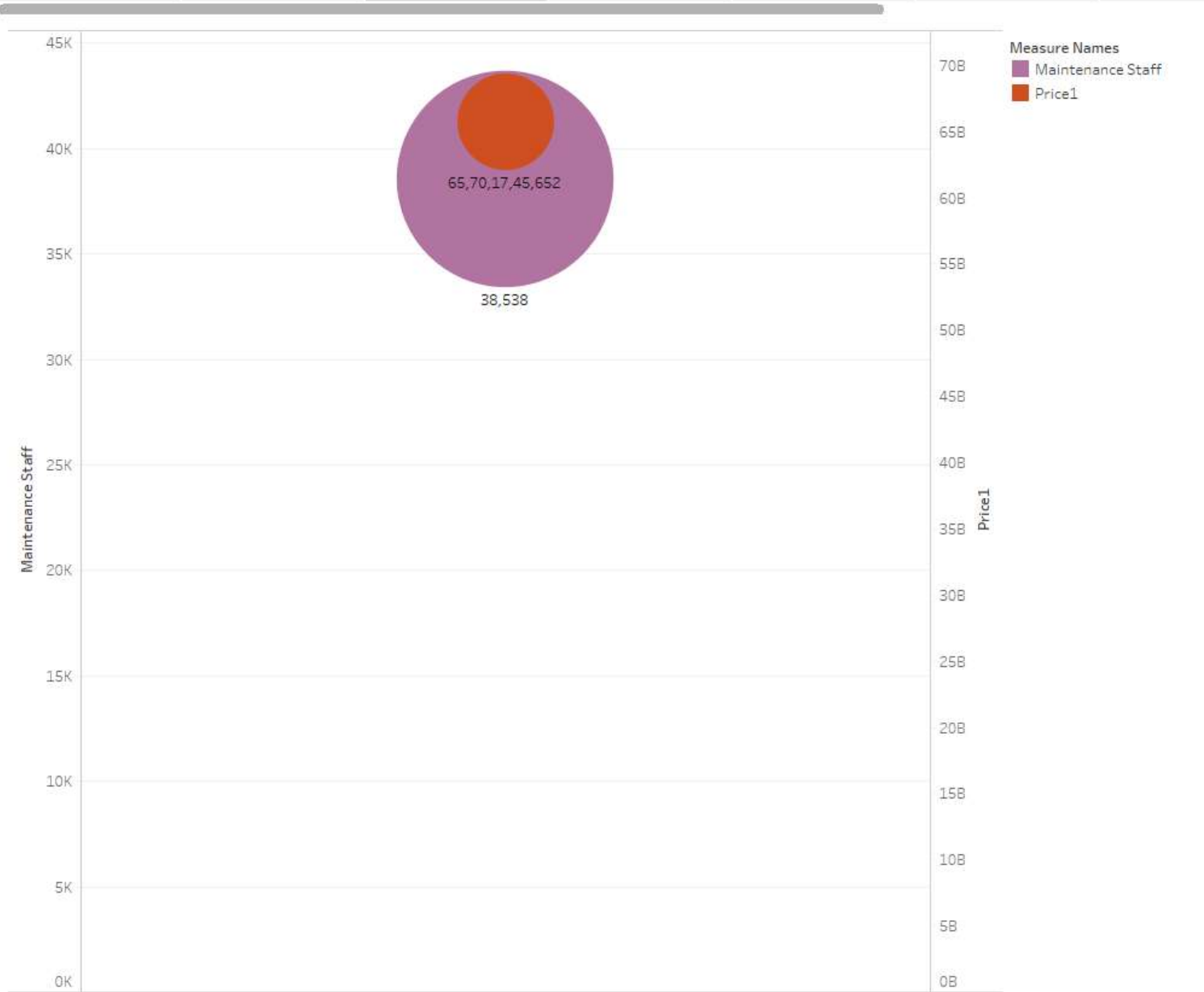
Our houses in Metropolitan city	Hospitals and schools near the Houses	Maintains staff in houses prices	House Price and Intercom	All Services based on Locations	House price based on Number of Bedrooms	Vastu-complains based on loc..
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Story 1

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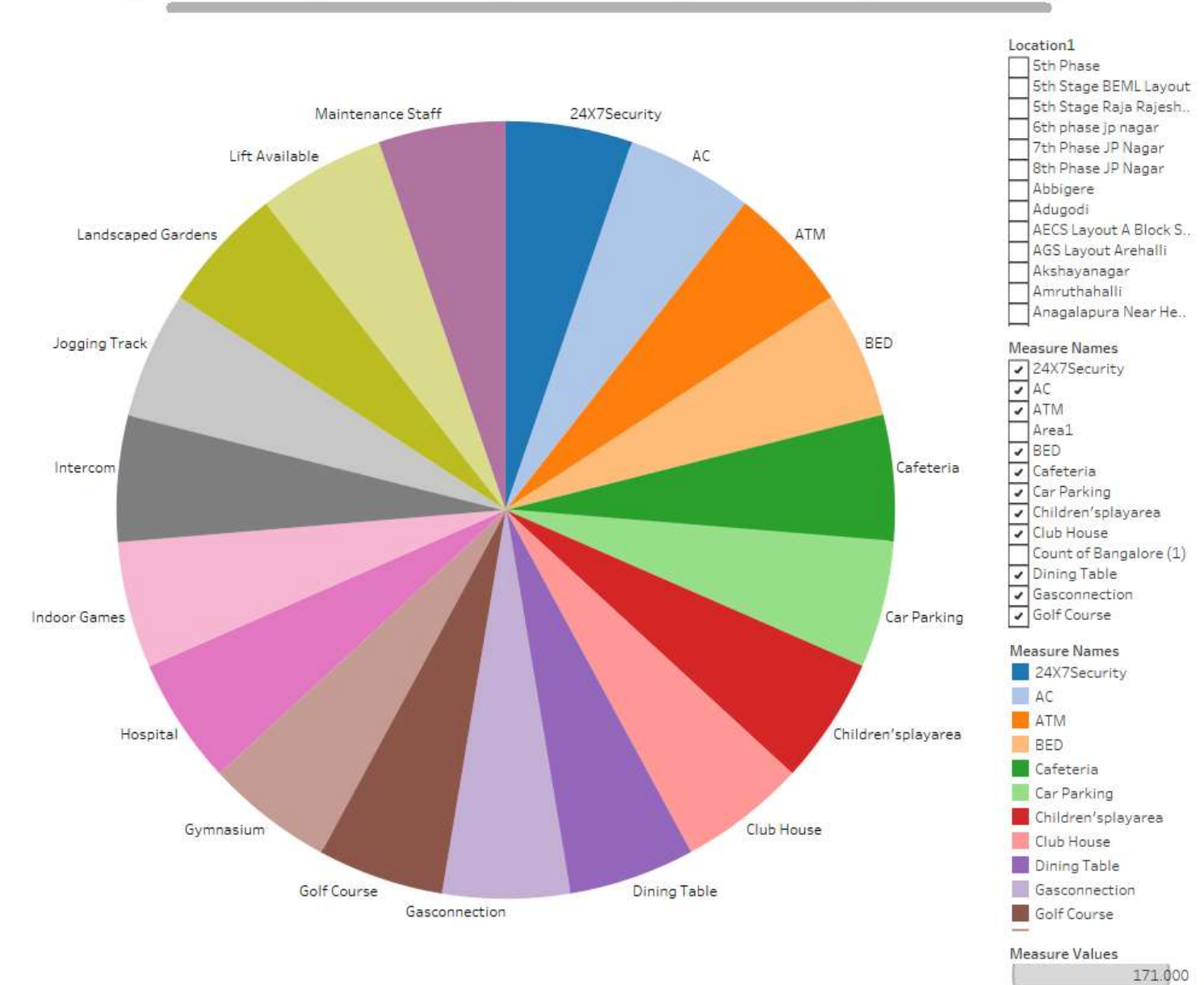


Story 1



Story 1

Hospitals and schools near the Houses	Maintains staff in houses prices	House Price and Intercom	All Services based on Locations	House price based on Number of Bedrooms	Vastu-complains based on location	Houses price based on rainwater harvest pits
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# Story 1

Maintains staff in  
houses prices

House Price and  
Intercom

All Services based on  
Locations

House price based on  
Number of Bedrooms

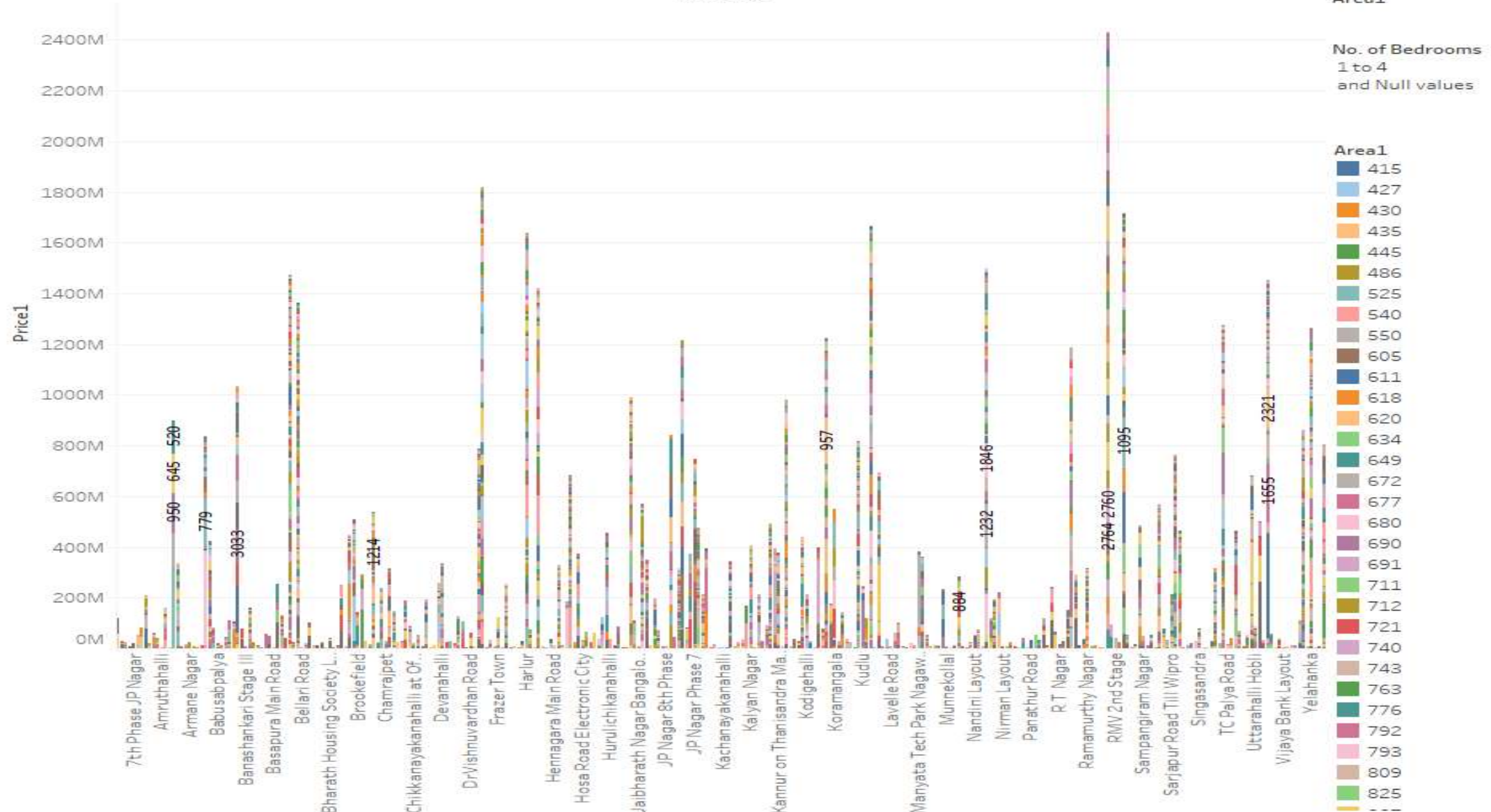
Vastu-complains based  
on location

Houses price based on  
rainwater harvest pits

Number of houses  
based on area in sqf

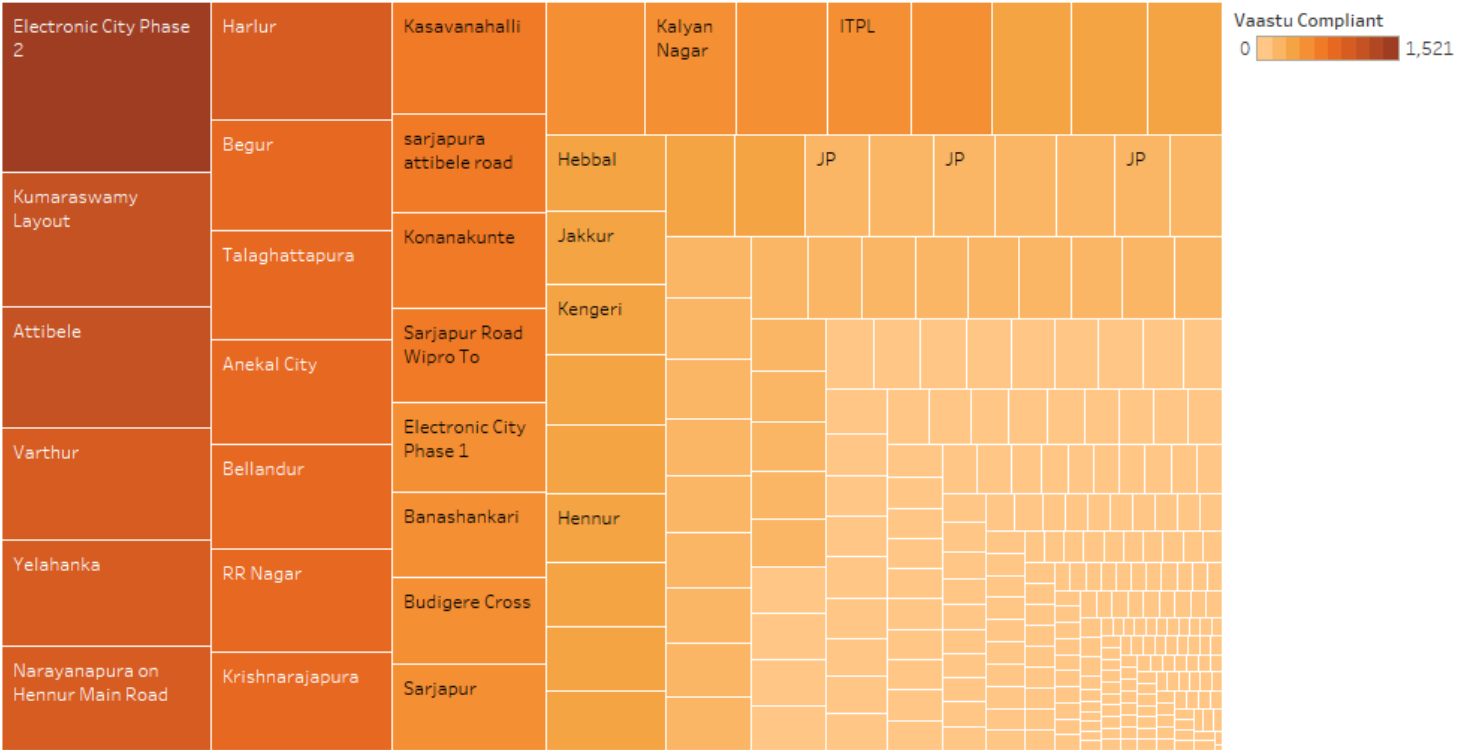
Location1

Area1



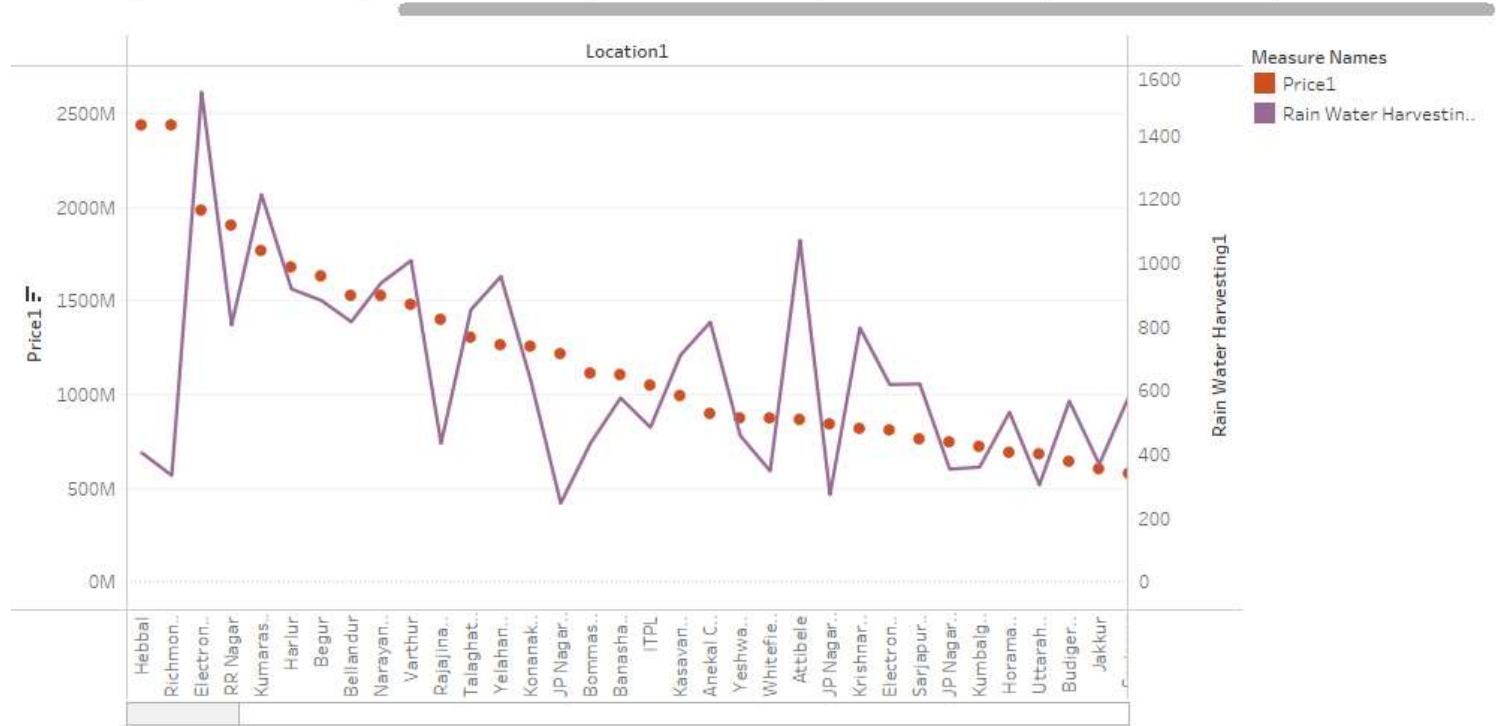
Story 1

Maintains staff in houses prices	House Price and Intercom	All Services based on Locations	House price based on Number of Bedrooms	Vastu-complains based on location	Houses price based on rainwater harvest pits	Number of houses based on area in sqf
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Story 1

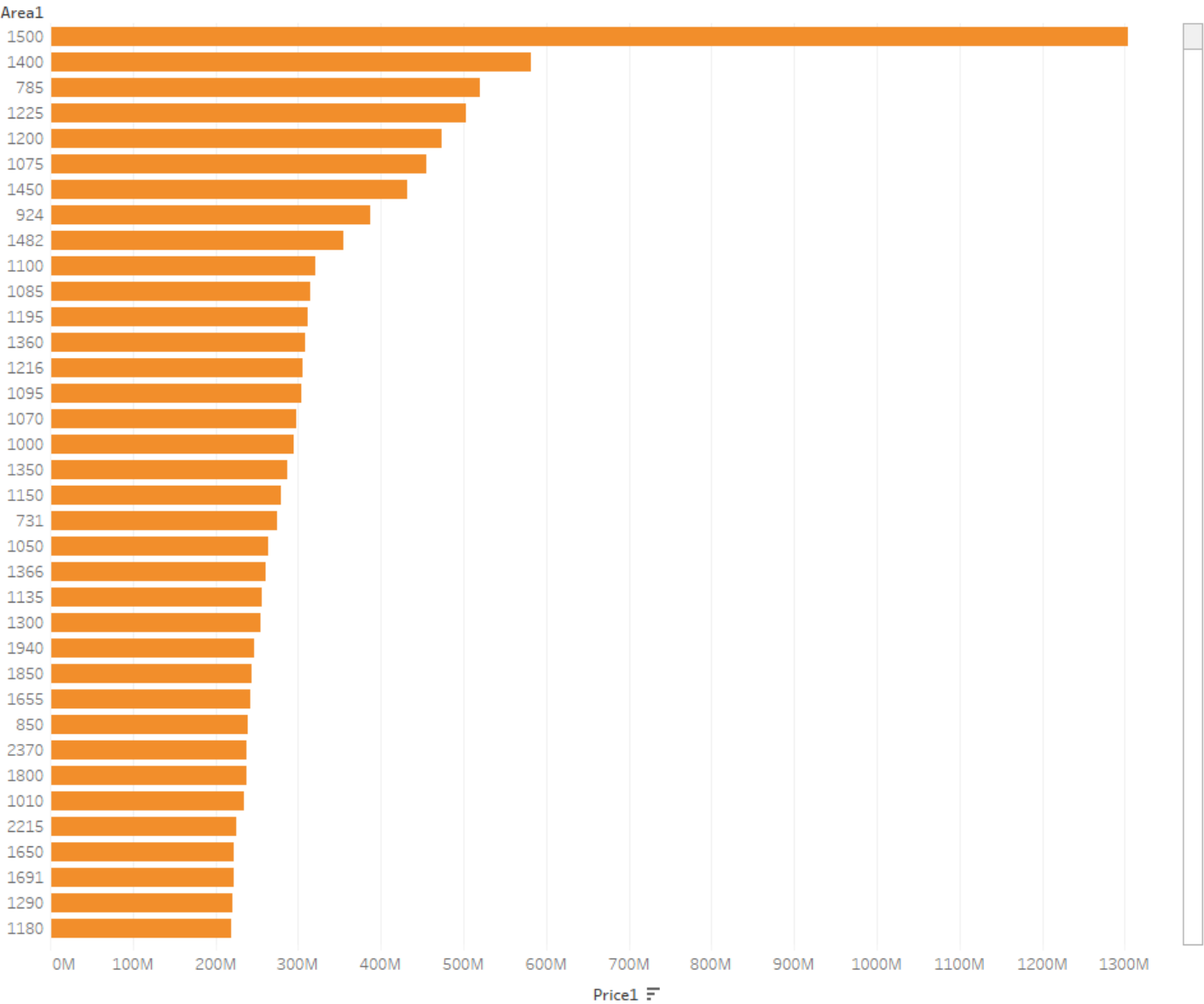
Maintains staff in houses prices	House Price and Intercom	All Services based on Locations	House price based on Number of Bedrooms	Vastu-complains based on location	Houses price based on rainwater harvest pits	Number of houses based on area in sqf
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Story 1

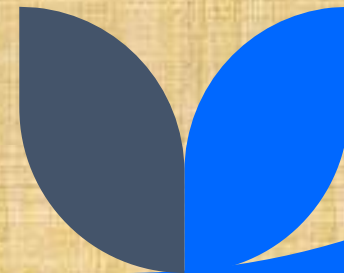
Maintains staff in houses prices	House Price and Intercom	All Services based on Locations	House price based on Number of Bedrooms	Vastu-complains based on location	Houses price based on rainwater harvest pits	Number of houses based on area in sqf
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# **RESULTS AND DISCUSSIONS:**

**We have studied the housing prices in metropolitan areas of India by creating Charts**

- **Empathy map**
- **Brain Storming And Idea Prioritization map**
- **Latitude and Longitude based on Location**
- **Number of houses based on area in sq ft.**
- **Houses price based on rainwater harvesting pits**
- **Vastu-complains based on location**
- **House price based on Number of Bedrooms**
- **Hospitals and schools near the Houses**
- **Maintains staff in houses prices**
- **House Price and Intercom**
- **All Services based on locations**



**THANK YOU**

