

# CITY BUDGET

**TEAM F**

# TEAM

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ALEX BAPTISTA

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# GOALS OF THE PROJECT

- Showcase how Boston city budget is distributed across Cabinets, Departments and Geography
- Portray how it has changed over time
- Evaluate city's financial management
- Providing valuable insights that can help the stakeholders make decisions
- Suggest ideas which can help distribute budget in a way which empowers and helps more boston residents

# MOTIVATION FOR THE PROJECT

Project has the potential to impact the lives of millions of Boston residents

It will help bring transparency and bring accountability to the budgeting process promoting informed governance practices

Data driven approach can highlight areas of focus and increase efficiency in use of public funds

Can help engage citizens in the budgeting process

# DATA WORKED ON

OPERATING BUDGET (2021-24)

CAPITAL BUDGET (2024-28)

REVENUE (2021-24)

SOCIO ECONOMIC DATA (2015-19)

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DATASETS

# OPERATING DATA - RAW

	Cabinet	Dept	Program	Expense Category	FY21 Actual Expense	FY22 Actual Expense	FY23 Appropriation	FY24 Adopted
count	900	900	900	900	900	900	900	900
unique	21	82	220	7	710	755	698	738
top	Finance Cabinet	Boston Public Schools	Film & Special Events	Personnel Services	#Missing	#Missing	#Missing	#Missing
freq	115	90	6	201	176	141	115	88










# CAPITAL BUDGET

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```
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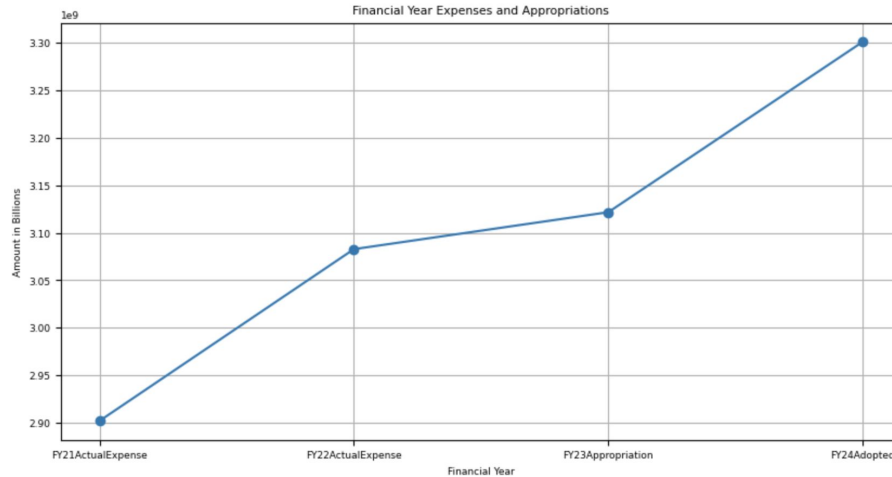


# REVENUE

_id 	Revenue Category 	Account 	Cabinet 	Department 	FY21 Actual 	FY22 Actual 	FY23 Appropriation 	FY24 Adopted 
1	Property Tax Levy	Real Estate Taxes	Finance	Assessing Department	2,490,082,613	2,630,469,593	2,784,133,324	2,913,736,657
2	Property Tax Levy	Personal Property Tax	Finance	Assessing Department	189,939,113	196,499,737	209,010,762	214,236,031
3	Property Tax Levy	Property Tax Overlay	Finance	Assessing Department	-3,735,387	-33,174,590	-29,845,007	-30,000,000

# RESULTS AND VISUALIZATIONS

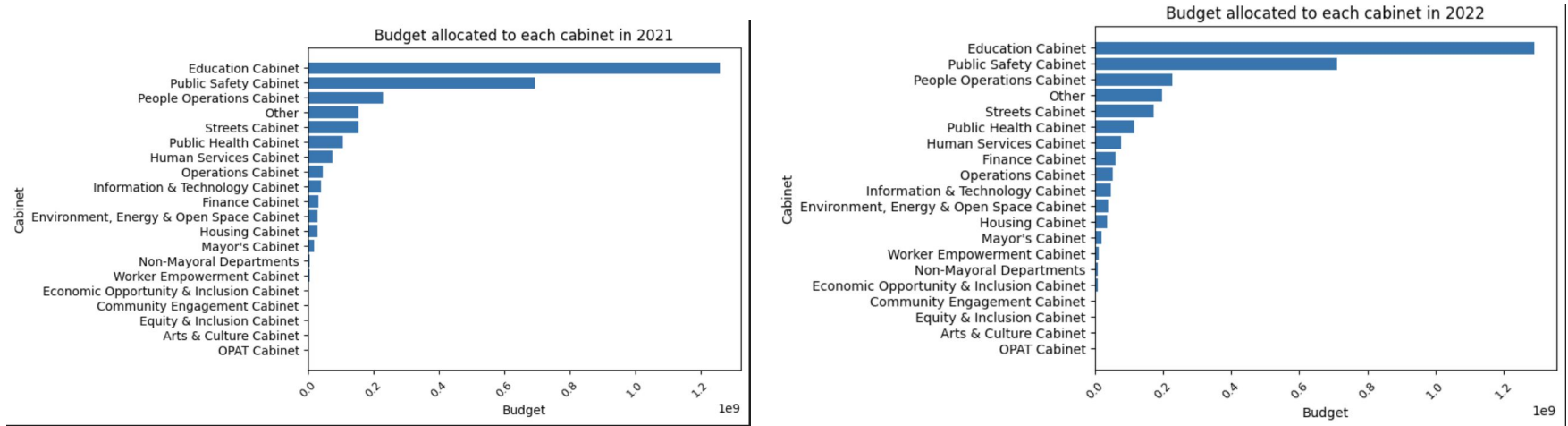
# TOTAL YEARLY OPERATING BUDGET 2021-24



7.5%

INCREMENT IN OPERATING BUDGET FROM 2021 TO 2023

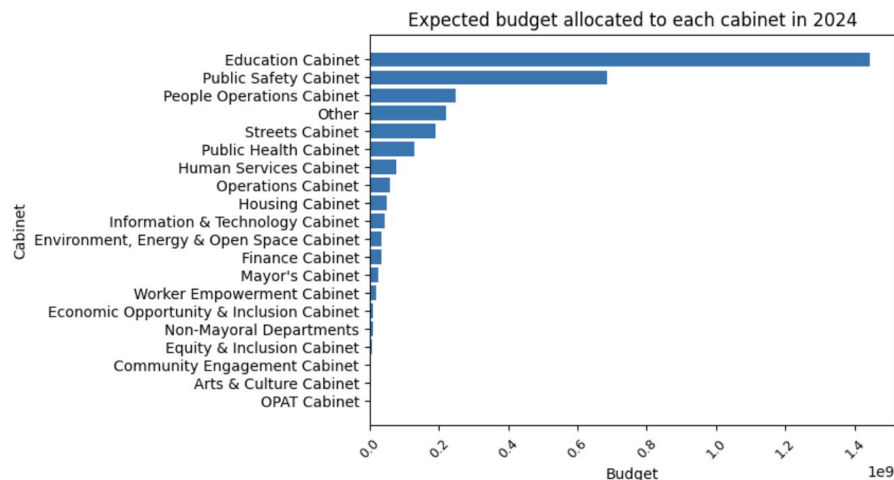
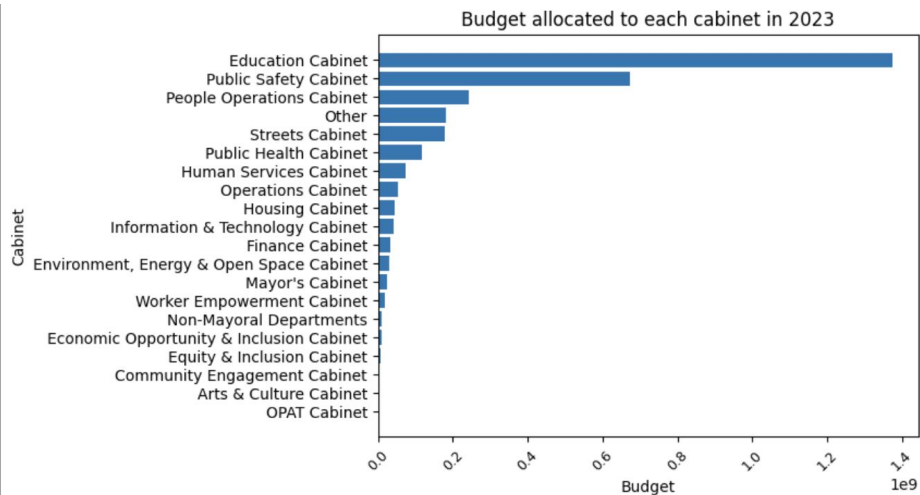
# OPERATING BUDGET – DISTRIBUTION BY CABINET



2021 vs 2022

Only Non-Mayoral and Worker Empowerment switch positions. Otherwise the order is same and relative percentages are also similar

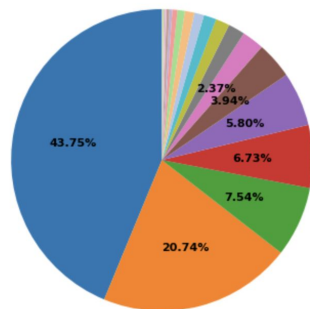
# 2023 vs 2024



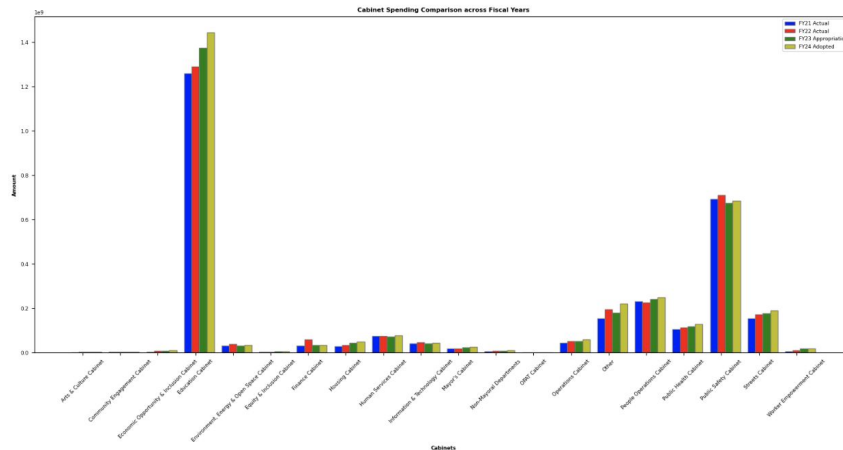
Couple of relative order switches

# PERCENTAGE BREAKDOWN

Expected Expenses by Cabinet for 2024

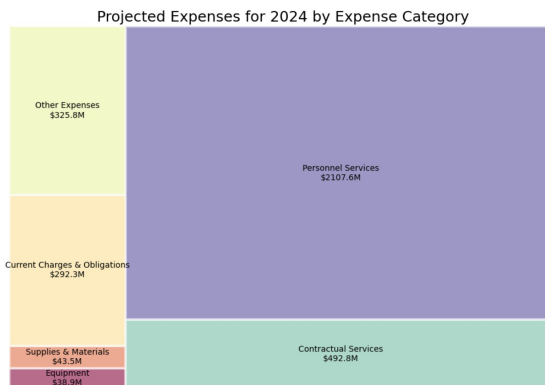
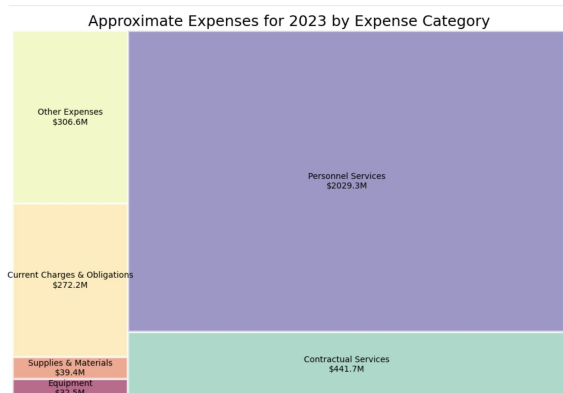
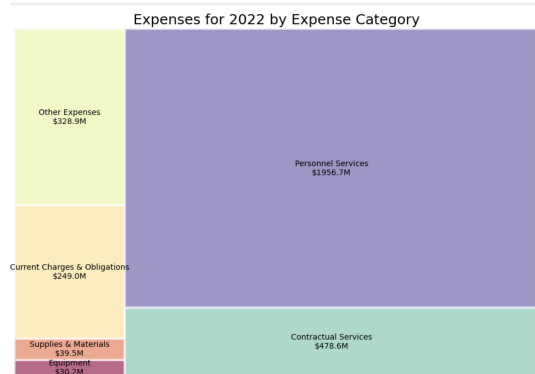
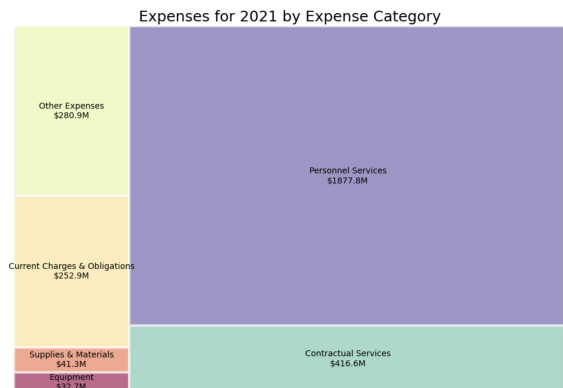


Total Expenses: \$3,300,920,285.00

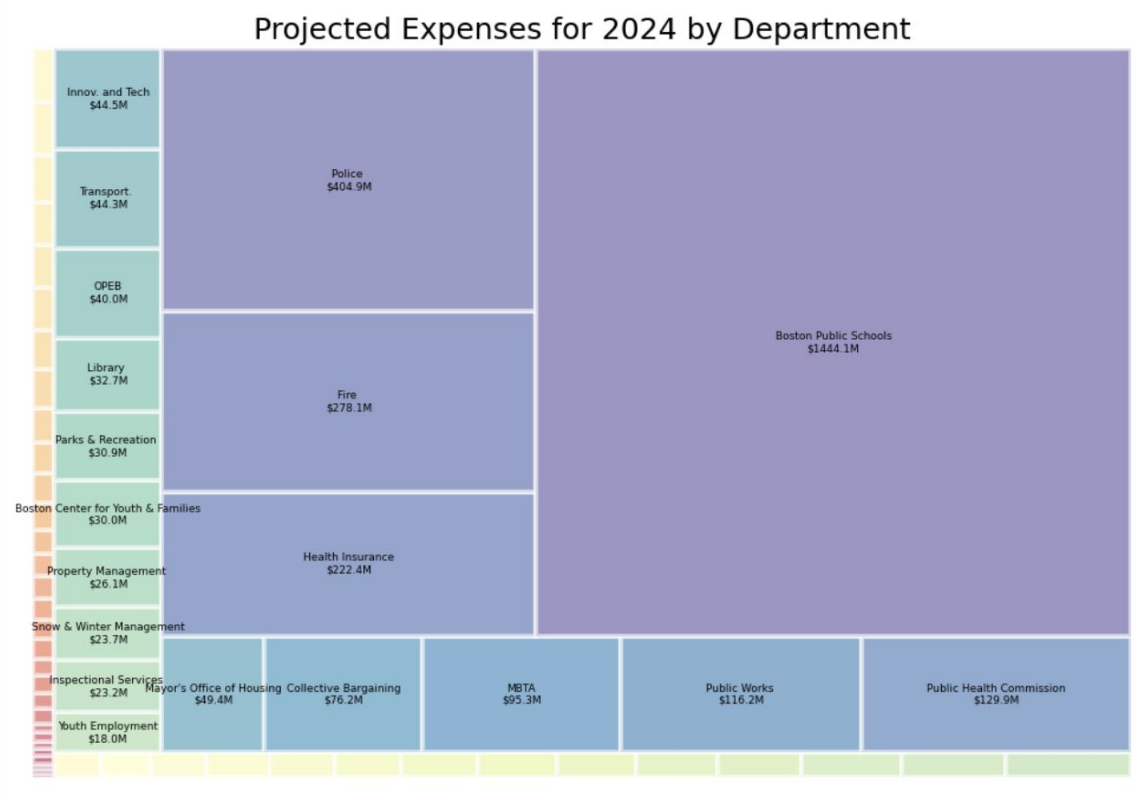


COMPARISON OVER 2021-24

# DISTRIBUTION BY EXPENSE CATEGORY (2021-24)



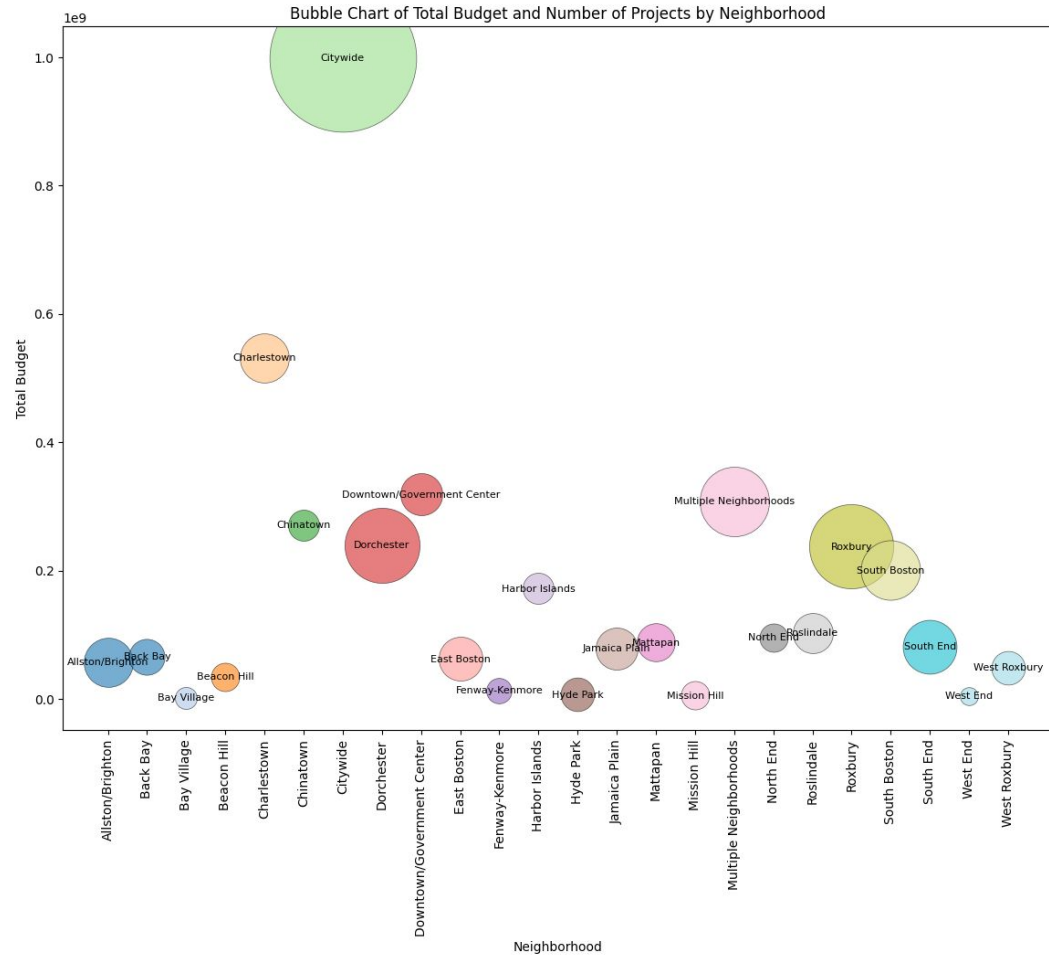
# DISTRIBUTION BY DEPARTMENTS



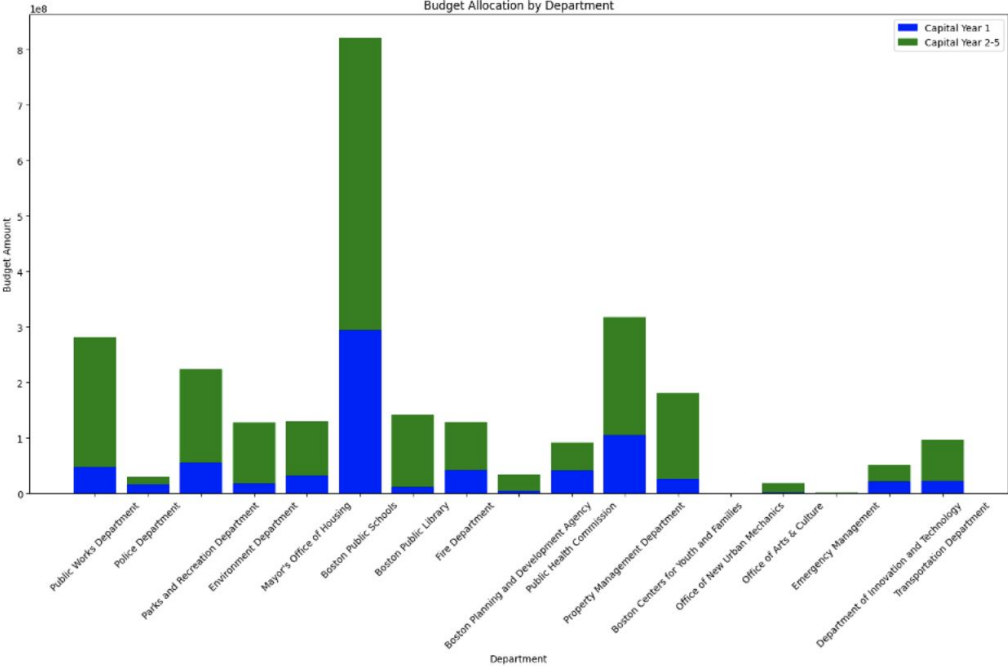


# CAPITAL BUDGET

Distribution by  
Neighborhood



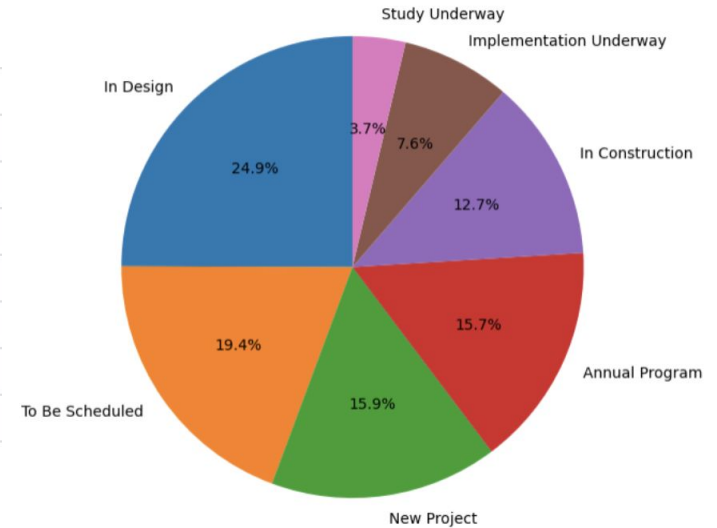
# BY DEPT



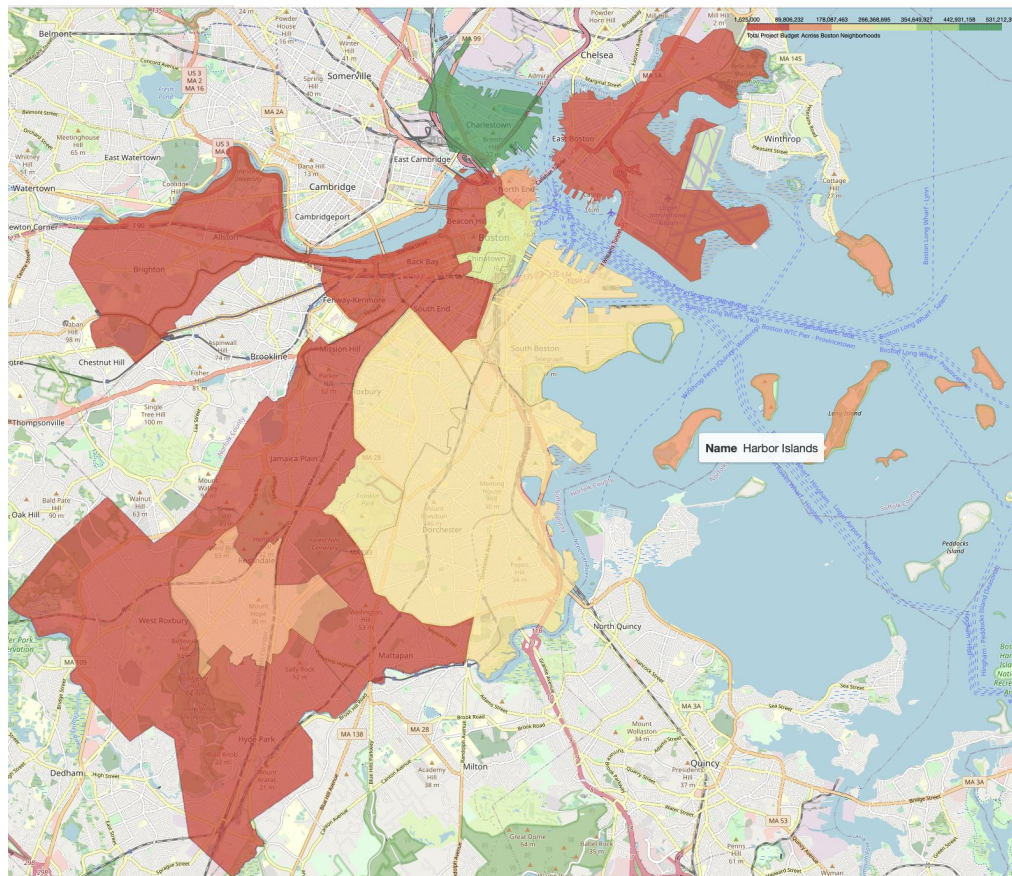
	Department	Capital Year 1	Capital Year 1 %	Capital Year 2-5	Capital Year 2-5 %
0	Boston Centers for Youth and Families	1840000	0.790916	154902125	7.989427
1	Boston Planning and Development Agency	170000	0.073074	29354783	1.514039
2	Boston Public Library	8010000	3.443064	130758203	6.744150
3	Boston Public Schools	71249815	30.626429	527733636	27.219055
4	Department of Innovation and Technology	7353000	3.160656	29985140	1.546551
5	Emergency Management	0	0.000000	1500000	0.077366
6	Environment Department	13625000	5.856648	110400474	5.694154
7	Fire Department	12855000	5.525667	86467628	4.459763
8	Mayor's Office of Housing	25750000	11.068528	97178179	5.012184
9	Office of Arts & Culture	825000	0.354623	16664650	0.859517
10	Office of New Urban Mechanics	0	0.000000	150000	0.007737
11	Parks and Recreation Department	20893645	8.981044	168399600	8.685590
12	Police Department	4490000	1.930007	12735000	0.656836
13	Property Management Department	11859489	5.097751	212755793	10.973361
14	Public Health Commission	9075000	3.900850	49860610	2.571674
15	Public Works Department	35240574	15.148010	235091668	12.125384
16	Transportation Department	9405079	4.042733	74901423	3.863210

# PROJECT STATUS DISTRIBUTION

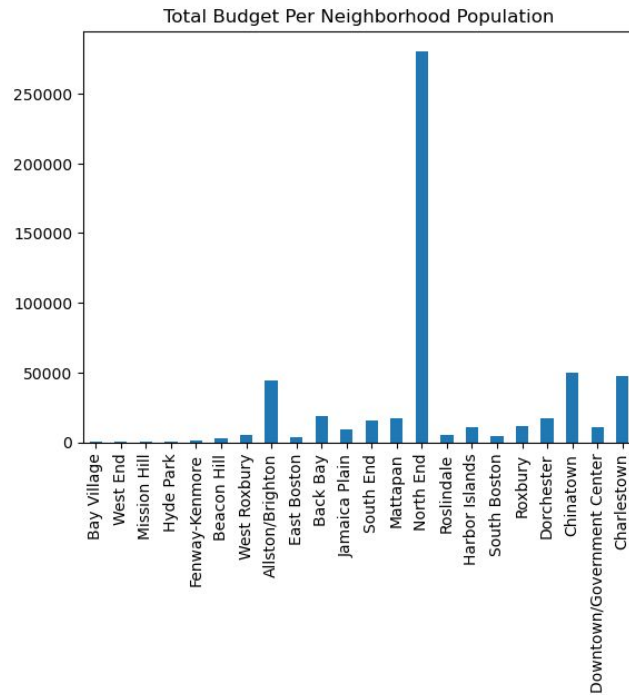
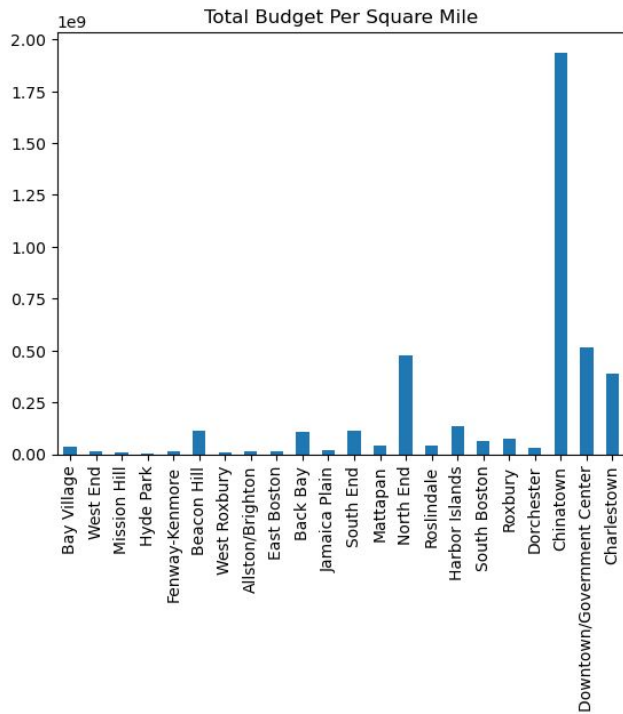
Phase in the Project Pipeline	Description	Percentage
1	New Project	15.90%
2	Study Underway	3.70%
3	To Be Scheduled	19.40%
4	In Design	24.90%
5	Annual Program	15.70%
6	Implementation Underway	7.60%
7	In Construction	12.70%



# MAP REPRESENTATION OF CAPITAL BUDGET BY NEIGHBORHOOD

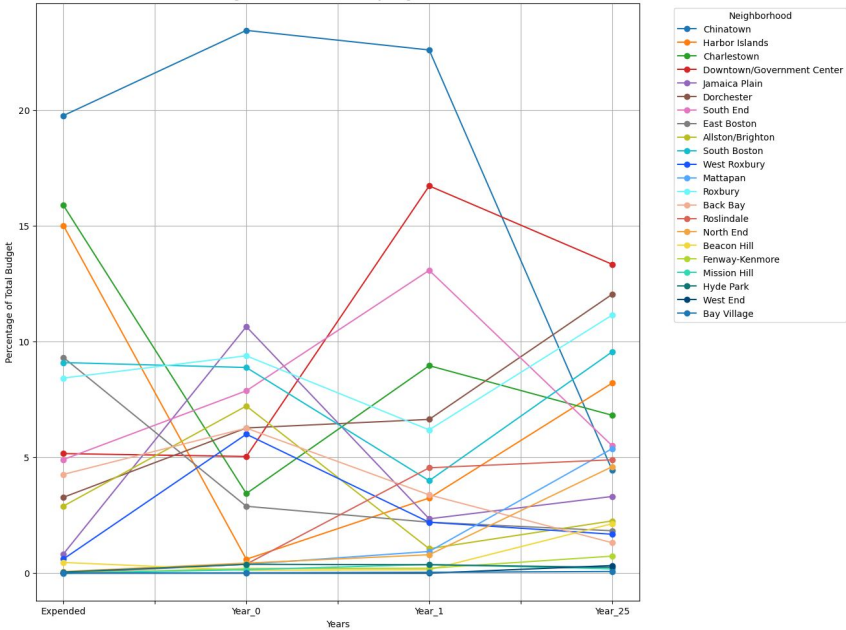


# EXPLORING EFFECTS OF AREA AND POPULATION

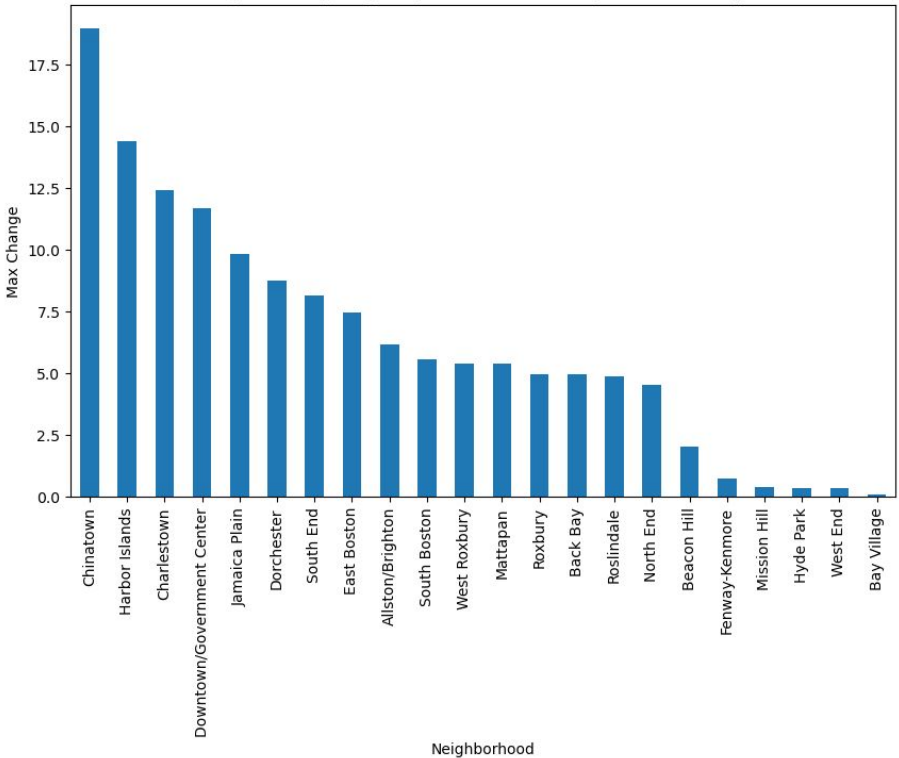


# CHANGES ACROSS YEARS

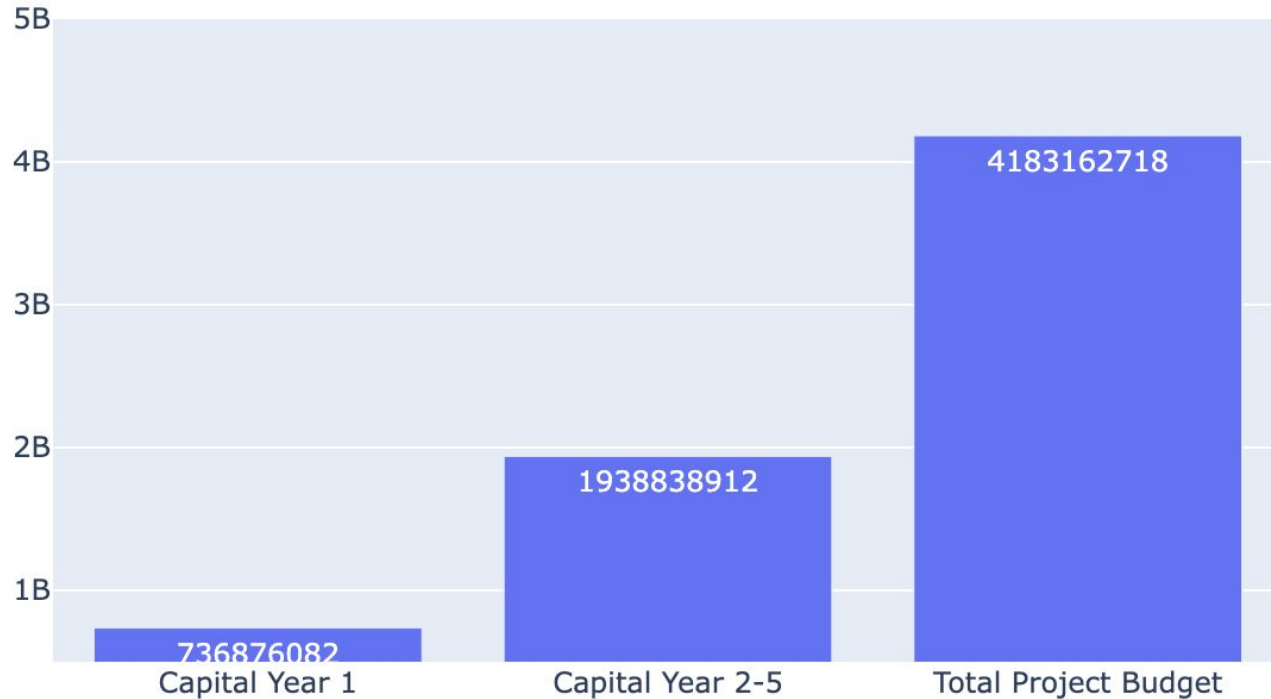
Budget Allocation Over Time by Neighborhood



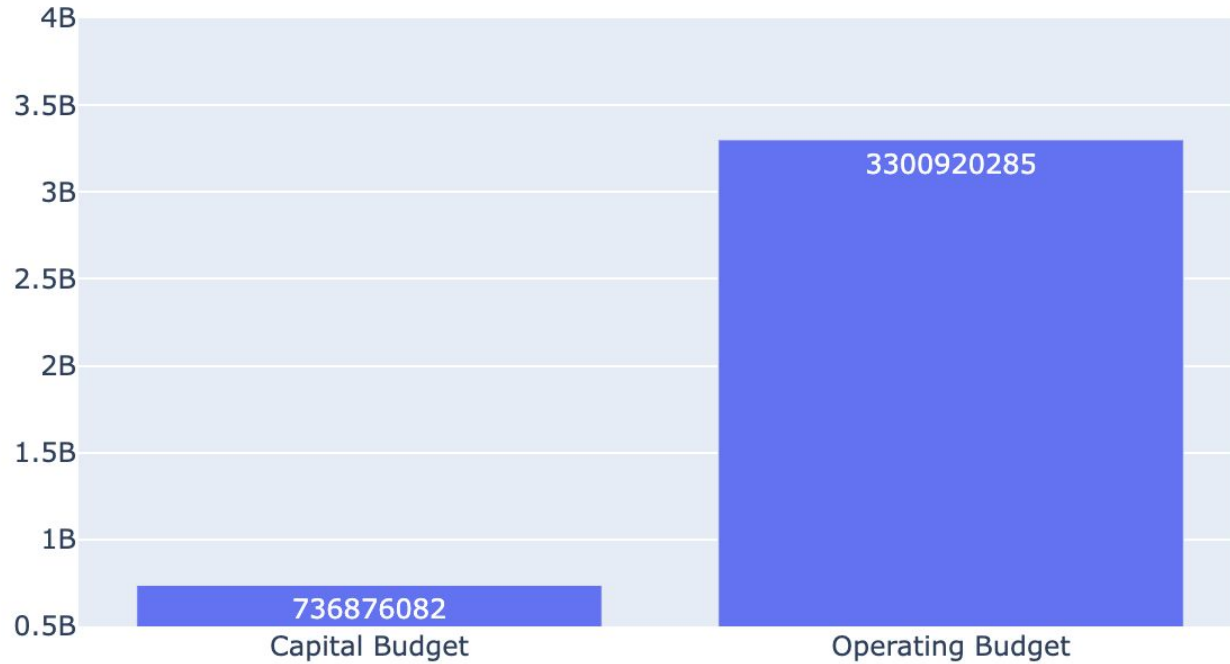
Maximum Changes in Budget By Neighborhood Percentages Over the Capital Plan Period



# CAPITAL BUDGET SPLIT 1ST VS 2-5 YEARS VS TOTAL

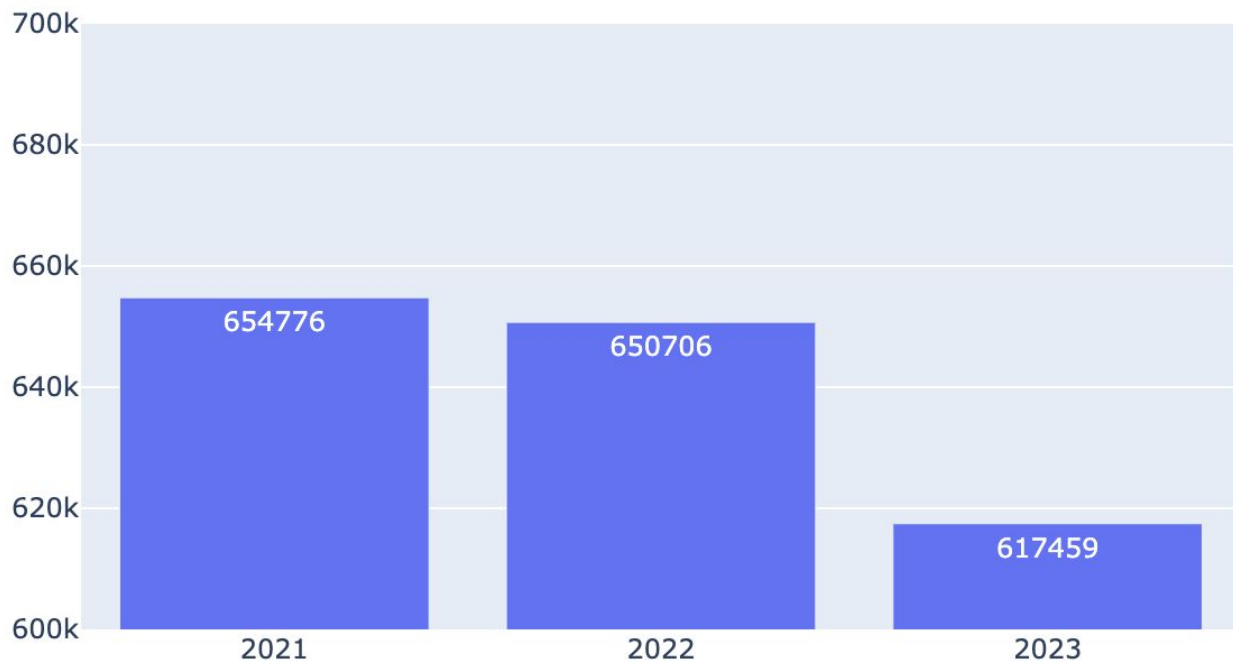


# 2024 CAPITAL VS OPERATING BUDGET





# BOSTON POPULATION



6540

BOSTON CITY BUDGET PER CAPITA

# CHALLENGES FACED

# DISCREPANCY -1

	Department	Project_Name	Scope_Of_Work	PM_Department
0	Boston Centers for Youth and Families	BCYF Security and Technology Upgrades	Improvements to technology infrastructure and ...	Boston Centers for Youth and Families
1	Boston Centers for Youth and Families	BCYF Tobin Community Center Retaining Wall	Repair or replace the retaining wall adjacent ...	Public Facilities Department
2	Boston Centers for Youth and Families	BCYF North End Community Center	Develop a design for a new North End Community...	Public Facilities Department
3	Boston Centers for Youth and Families	Pool Repairs	Renovate and upgrade locker rooms and pools in...	Boston Centers for Youth and Families
4	Boston Centers for Youth and Families	Youth Budget Round 4	Engage youth across the City to create a capit...	Youth Engagement and Employment

Department and 'PM\_Department' have different values. Need help from the clients in understanding differences b/w them

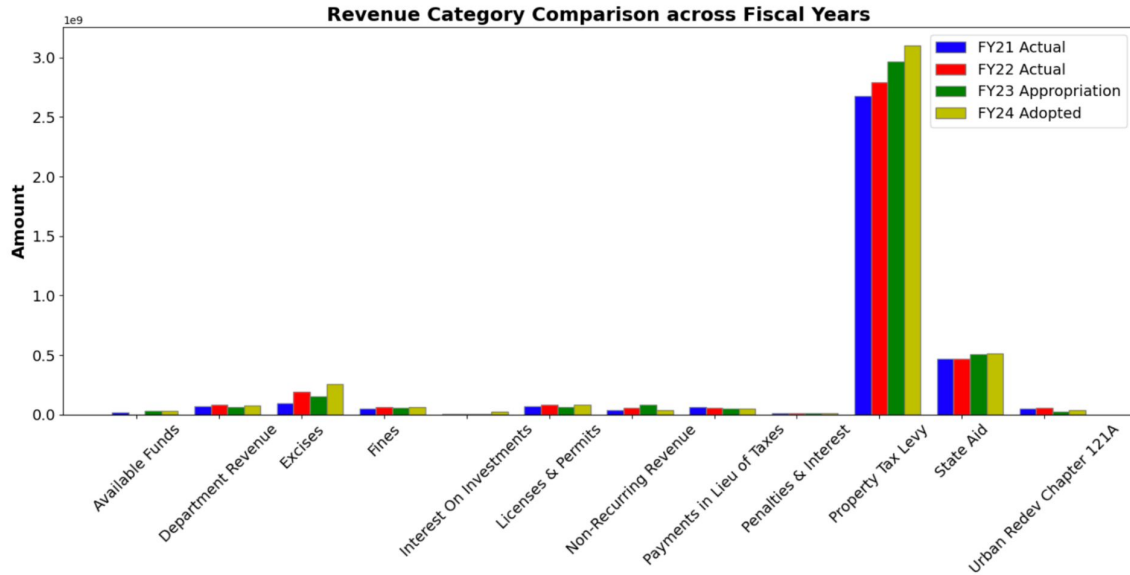
# DISCREPANCY - 2

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✓ 0.0s
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      'CapitalYear_1 ', 'Capital_Year_25', 'Grant_Expended', 'Grant_Year_0',
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We dont understand the use of a lot of columns and many columns also have a lot of 0's

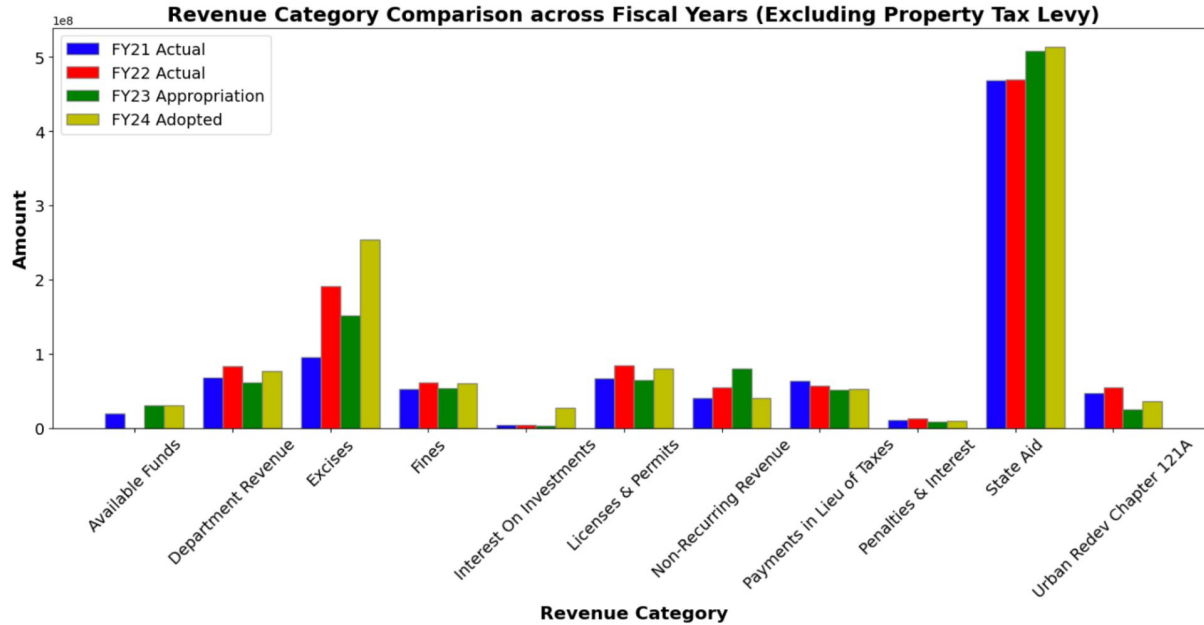
# EXTENSION PROJECTS

# REVENUE CATEGORY COMPARISON (ACROSS FISCAL YEARS)



The "Property Tax Levy" stands out significantly, indicating its dominant role in revenue generation

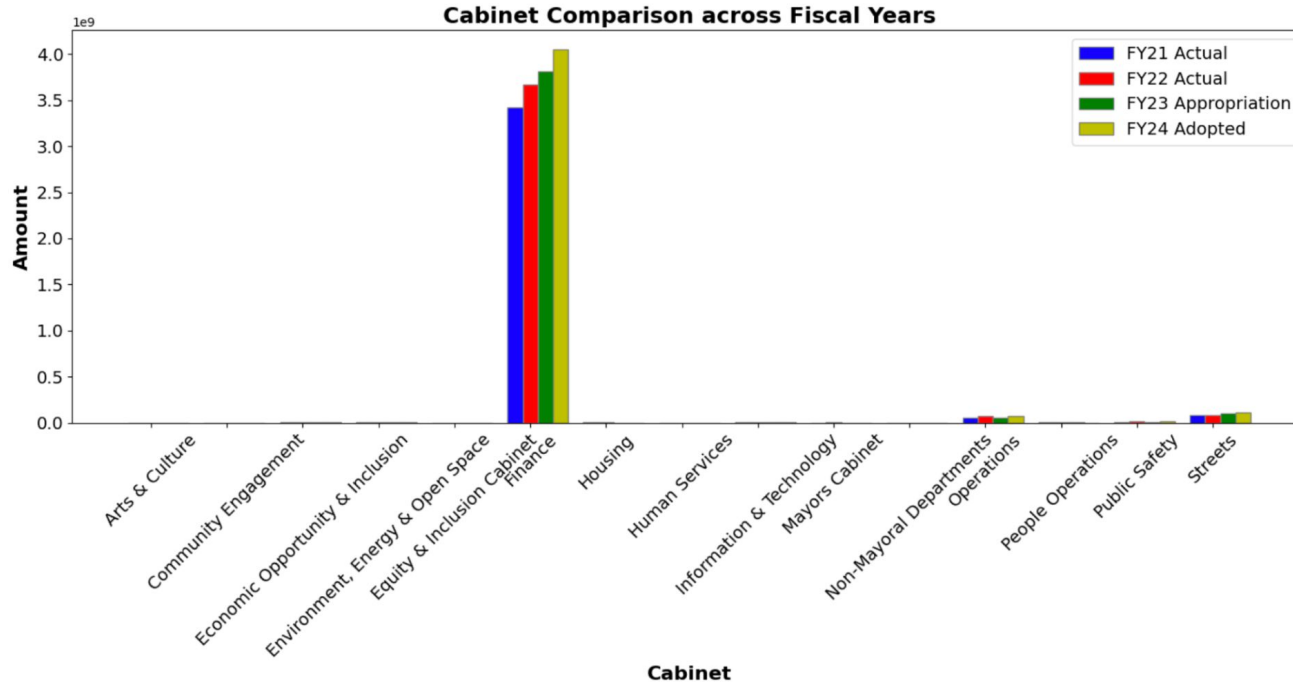
# EXCLUDING PROPERTY TAX



"Excises," which saw a substantial increase in the "FY24 Adopted". The majority of other revenue categories exhibit consistent trends across the years with slight fluctuations

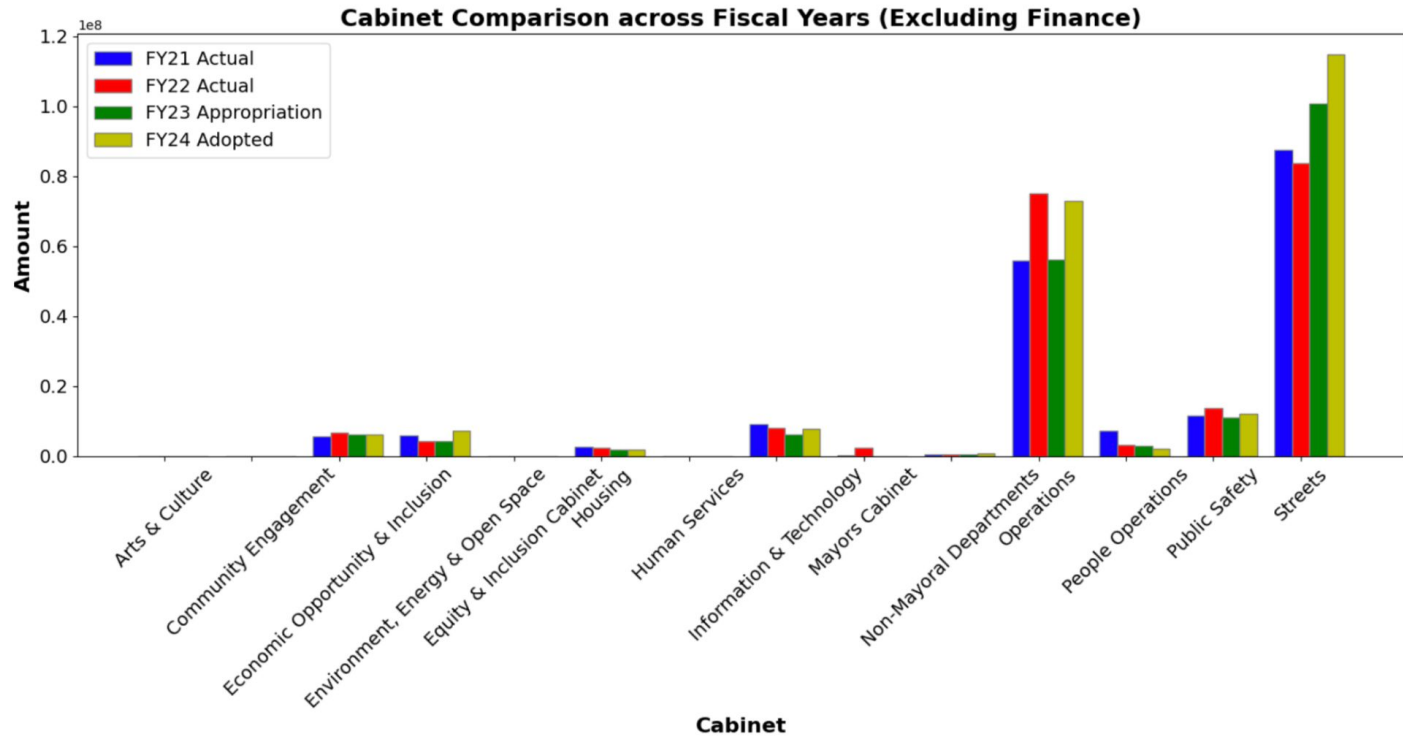


# CABINET COMPARISON (ACROSS FISCAL YEARS)

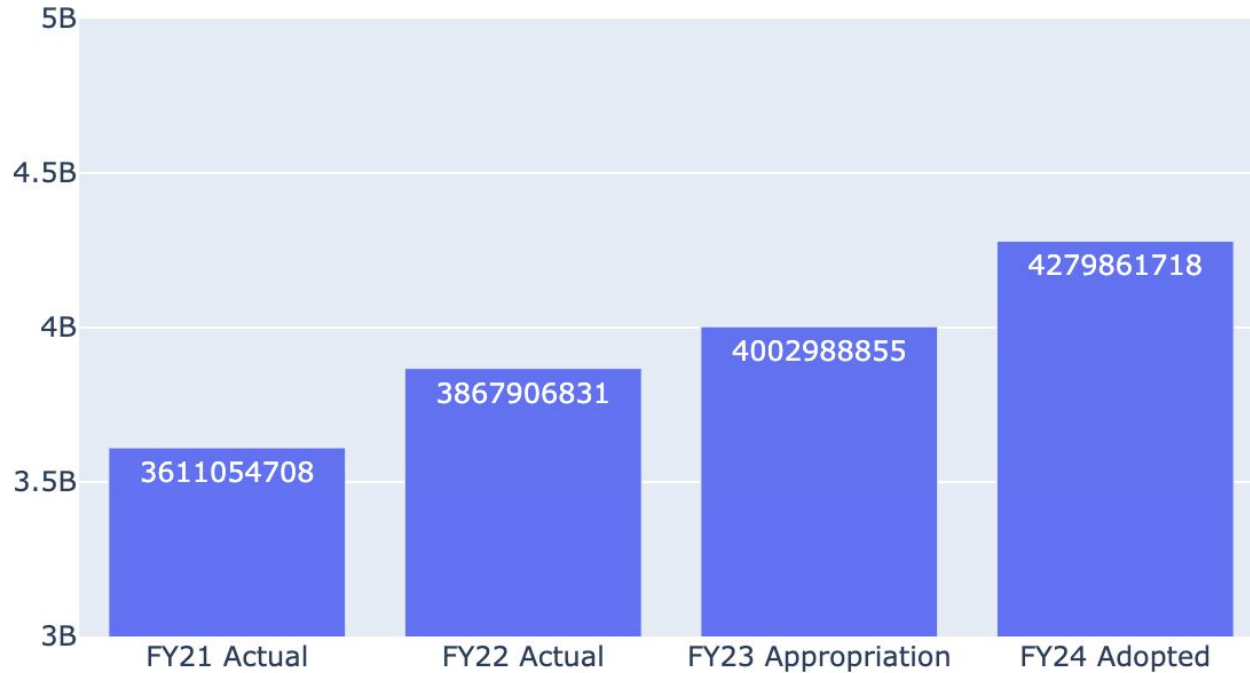


Similar trend seen as was in Property Tax. Also, its clear that Property Tax category comes under 'Finance' Cabinet

# EXCLUDING FINANCE



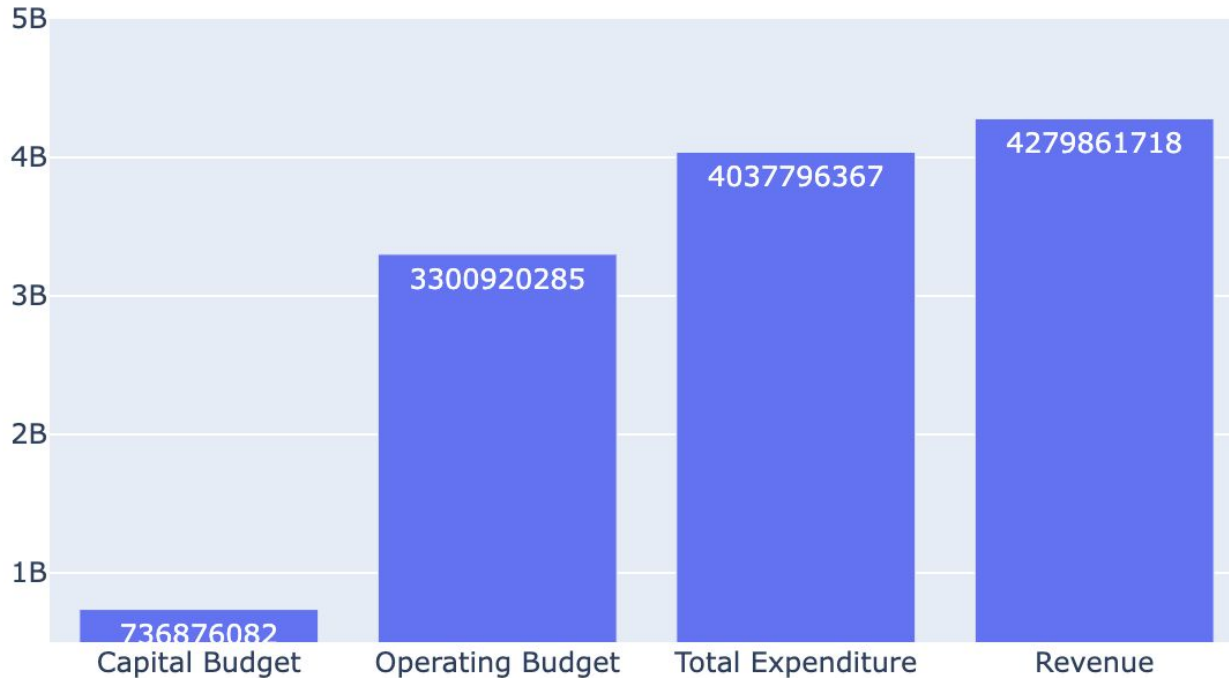
# REVENUE COMPARISON (OVER YEARS)



10.85%

Revenue increment from 2021 to 2023

# 2024 PROJECTED - REVENUE VS EXPENDITURE

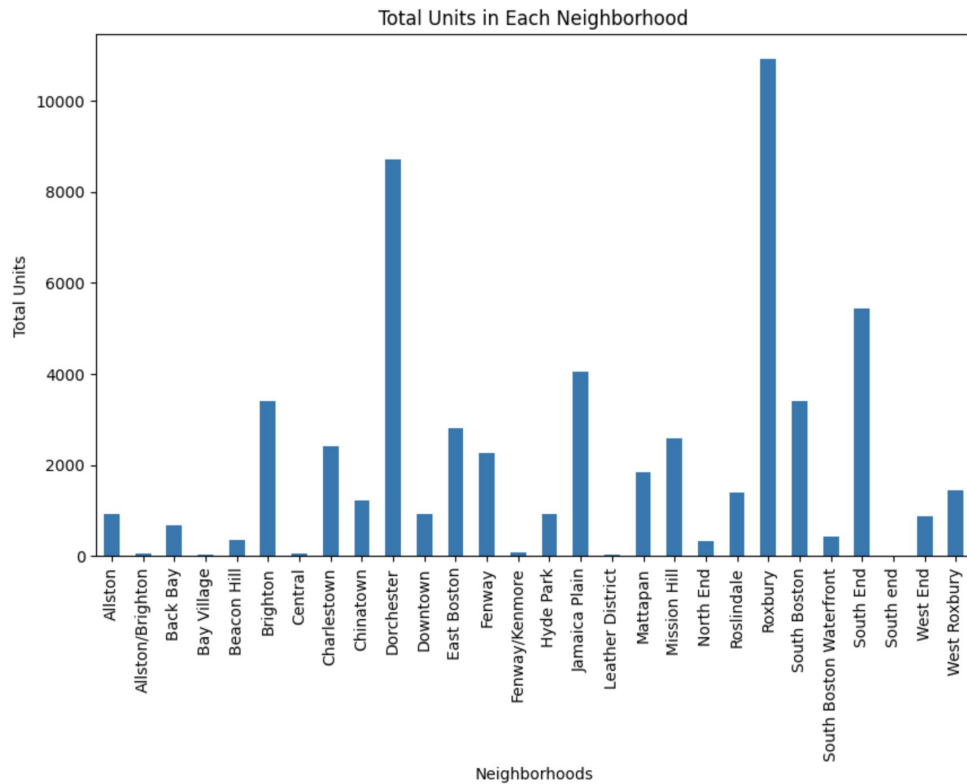


Therefore, Boston City can afford the planned Capital Budget and Operating Budget for 2024

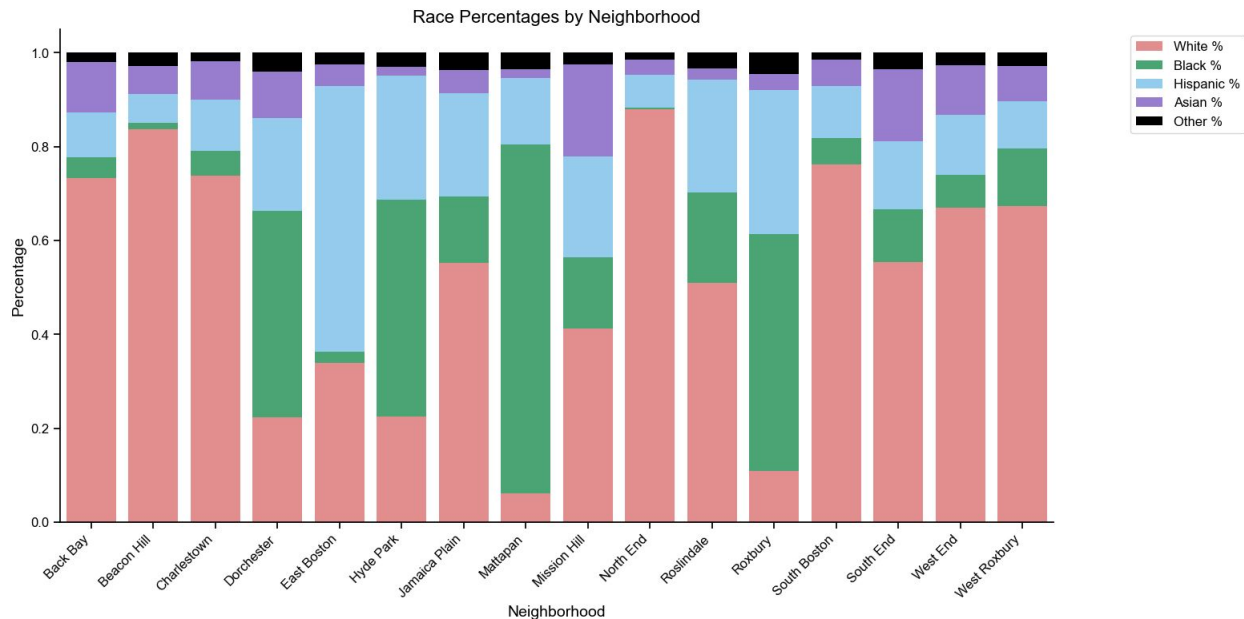
6931.4

PROJECTED BOSTON REVENUE PER CAPITA – 2024

# SOCIO ECONOMIC DATA

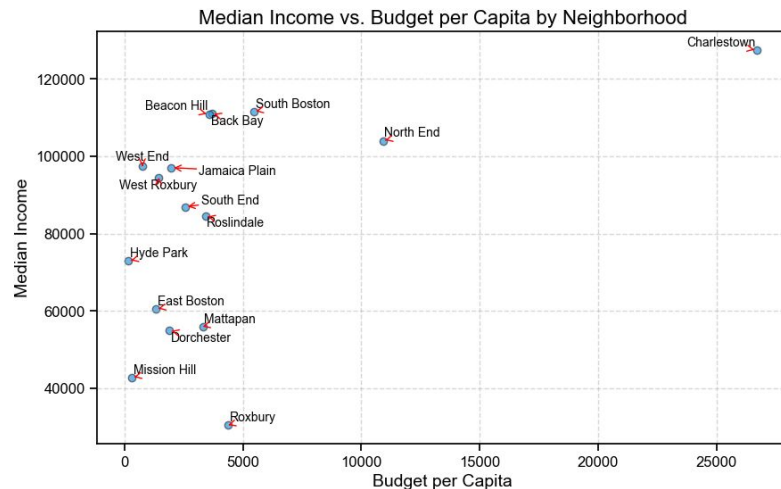
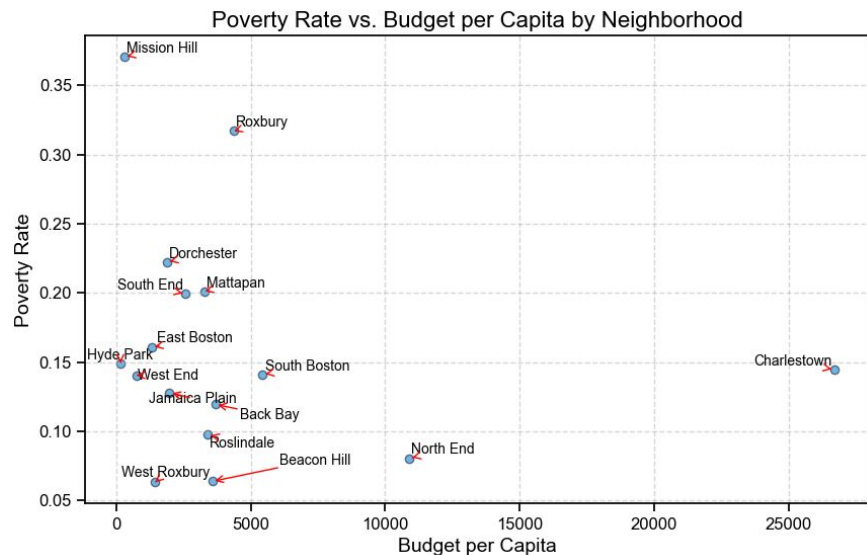


# RACIAL DISTRIBUTION BY NEIGHBOURHOOD





# BUDGET PER CAPITA VS POVERTY RATE & MEDIAN INCOME



# PLANNED NEXT STEPS

Explore correlation between capital expenditure and revenue generation

Map departments that come under various cabinets

Finish the revenue and socio-economic extension projects

Perform a comparison with budget distribution of Philadelphia

Identify improvement areas

THANK YOU!