



Spatial Feature Report

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engineered solutions

Disclaimer

This document contains data that was obtained from a live CP3 system at the moment the data was requested. The data is updated by users of the CP3 System and unless the system is locked for changes, this data may change on a daily basis. The reader is therefore cautioned not to place inappropriate reliance on the data unless there is certainty on the status of the data in terms of how recently it has been updated, how “clean” the data is (is there a quality control and/or verification process that was followed by the licensee of the CP3 system to ensure that data is checked and verified from time-to-time) and whether the correct baseline was queried. This report therefore provides a “snapshot in time”. Consequently, the document may be less relevant at a different time, or using a different financial baseline to query from.

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Spatial Query Report

This document was created *2022-04-30-08\_19* from the **City of Johannesburg Metropolitan Municipality** CP3 system.

The baseline **'2022/2023\_MTREF Planning Capture Baseline\_20210823'** with description: **' 2021/2022\_MTREF Rollover + Planning Baseline\_20210307 duplicate + 2022/22 budget planning'** was used. The spatial feature that was selected for the purpose of this report was: **'Regions'**.

This is a spatial feature report for the *City of Johannesburg Metropolitan Municipality.* The data contained in this report was sourced directly from the municipality's live CP3 system. The information in this report therefore reflects the data as it was on *2022-04-30* when this report was requested. Any subsequent updates to the data contained the CP3 System related to the applicable baseline from which this reports was drawn, would therefore not reflect in this report.   
  
For the *City of Johannesburg Metropolitan Municipality, the following spatial features are available for the purpose of developing* 'Spatial Query Reports' (similar to this report):

* Deprivation Areas
* Informal Settlements
* Inner City Node
* Pro Poor
* Regions
* Strategically Targeted Areas
* Urban Development Zones
* Wards 2020



We hope you find this useful! Sincerely, *The Novus3 Team.*

# Introduction

The baseline that was queried for this report contains *2466* projects of which a total of *27 (1.09%)* projects do not have any recorded intersection (overlap) with Regions. The following spatial features are available for queries using this API profile:

* Deprivation Areas
* Informal Settlements
* Inner City Node
* Pro Poor
* Regions
* Strategically Targeted Areas
* Urban Development Zones
* Wards 2020

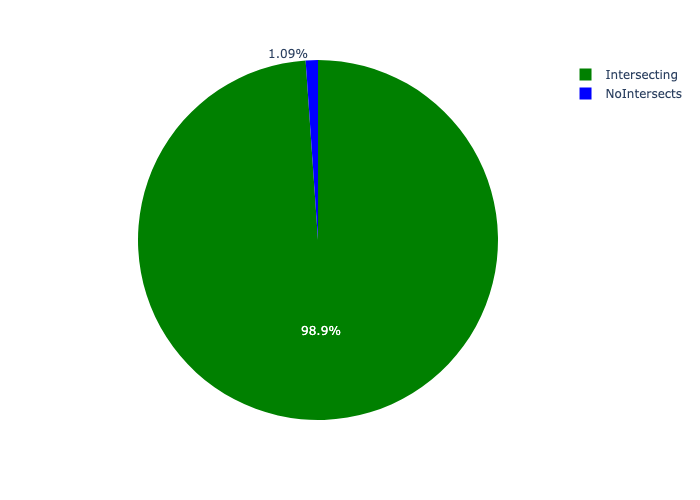
The probable reasons for the 27 non intersecting projects reported are that:

* these projects simply do not have a location associated with them yet (most frequently the case with 'no-intersect' projects) or;
* the location that was captured for some of these projects, may have been in the wrong place (e.g. outside the boundaries of Joburg - this is very rarely the reason).

It is important to take note of the 1.09% projects that do not intersect with Regions feature when appraising this report.

The 1.09% of non-intersecting projects is a relative low percentage and therefore not much cause of concern for this particular report.

Figure 1.1: Intersecting vs Non-Intersecting Projects



# Total Number of Projects and Total Capital Demand per Region - All Years

Table 2.1 below provides a concise summary of key statistical insights regarding the number of projects that are requesting funding in each of the Regions.

Table 2.1: Regions Analysis - Number of Projects

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Info (1) | Info (2) | Info (3) |
| Number of projects in all Regions - Overview | Total in all Regions: 2439 projects | Average per Regions: 348 projects | 75th percentile of projects across all Regions: 348.0 projects |
| The highest number of projects | Regions: In Region F | Number of projects in Region F: 586 | Percentage of total in Region F: 24.03% |
| The lowest number of projects: | Regions: In Region D | Number of projects in Region D: 260 | Percentage of total in Region D: 10.66% |

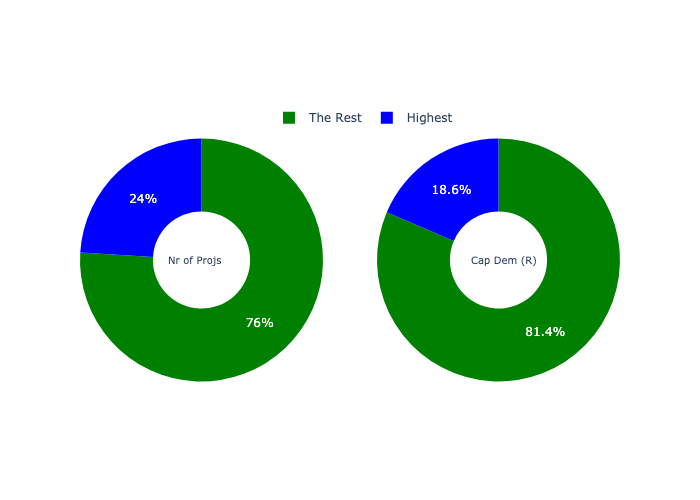
Table 2.1 below provides a concise summary of key statistical insights regarding the total capital demand per Region.

Table 2.1: Regions Analysis - Capital Demand (R)

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Info (1) | Info (2) | Info (3) |
| Capital demand in all Regions - Overview | Total capital demand in all Regions: R10,811,043,838 | The average capital demand per Regions: R1,544,434,834 | The 75th percentile of capital demand for Regions: R1,909,509,391 |
| The highest capital demand | Regions: In Region G | Capital Demand in Region G: R2,007,118,178 | Percentage of total in Region G: 18.57% |
| The lowest capital demand | Regions: In Region B | Capital Demand in Region B: R628,374,717 | Percentage of total in Region B: 5.81% |

The number of projects per Region and the capital demand per Region needs to be looked at together for better insight. Figures 2.1 and 2.2 assist with further graphical insight into some of the numbers that are provided in Tables 2.1 and 2.2.

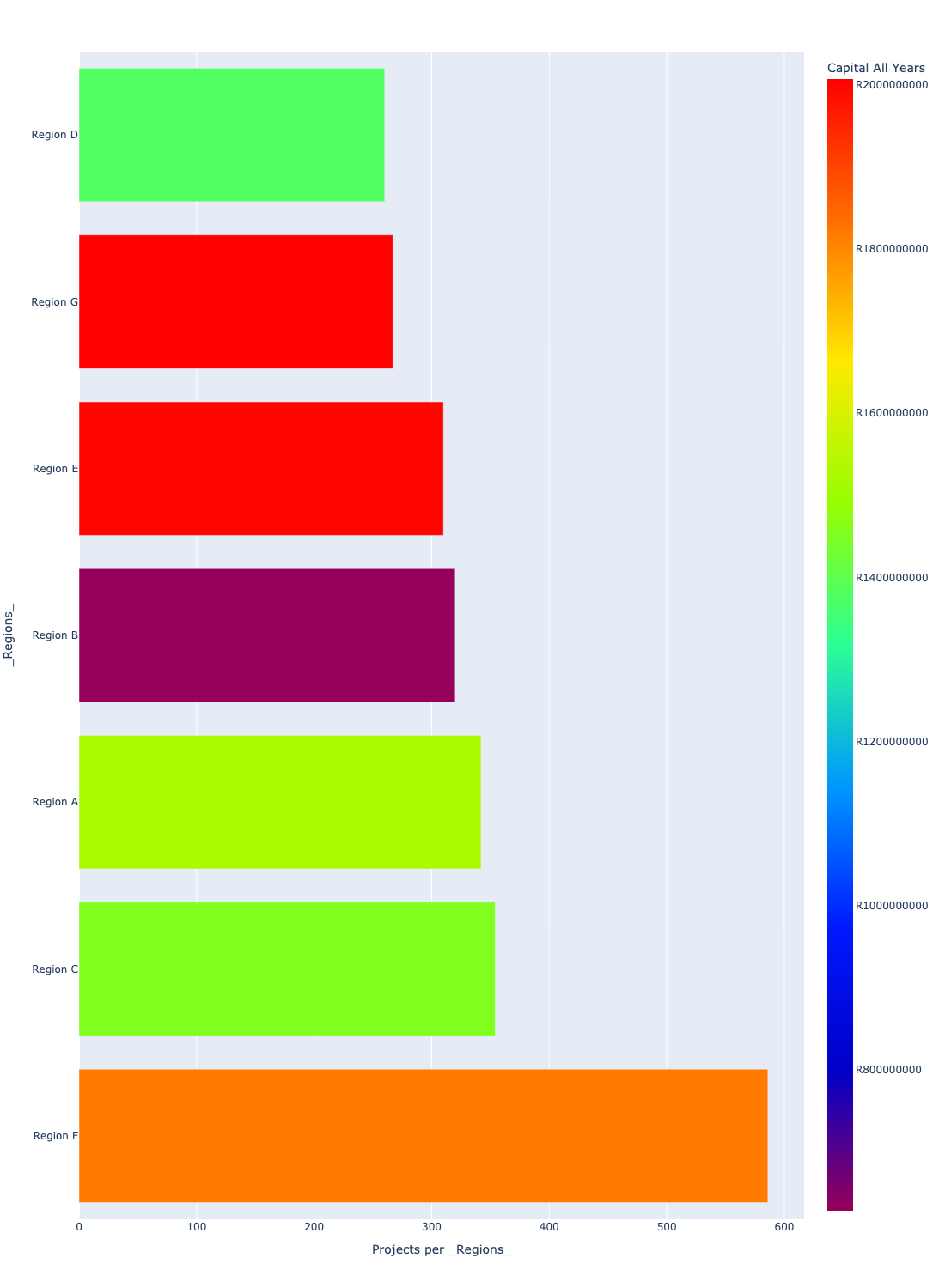
Figure 2.1: The single Region with the highest value (Nr of Projects & Capital Demand) vs the rest



The highest number of projects in a single Region is in **Region F.** *That is 586 projects and this is 24.03% of the total number of projects.*The highest capital demand in a single Region is in **Region G.** *That is R2,007,118,178 and this amounts to 18.57% of the total capital demand.*

The following figures provide a bar graph representation of the number of projects per Region with the colour of the bars representing the level of capital demand in each of these Regions.

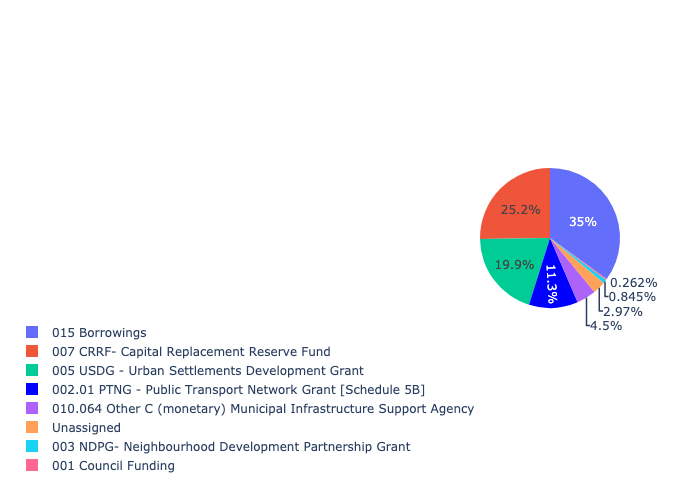
Figure 2.2: Projects and Capital Demand per Region



# Total Capital Demand per Region - All Years

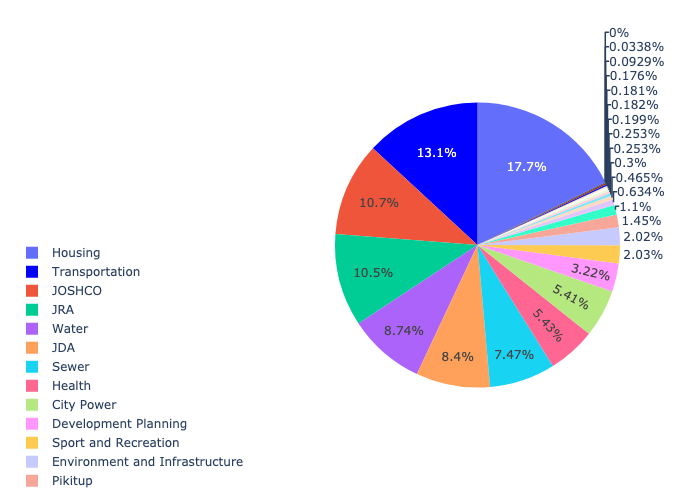
There are different funding sources from which capital is requested. For the financial baseline that was selected for this report query (2022/2023\_MTREF Planning Capture Baseline\_20210823), the breakdown of capital demand for City of Johannesburg Metropolitan Municipality per funding source is shown in Figure 3.1 below.

Figure 3.1: Capital Demand Per Funding Source



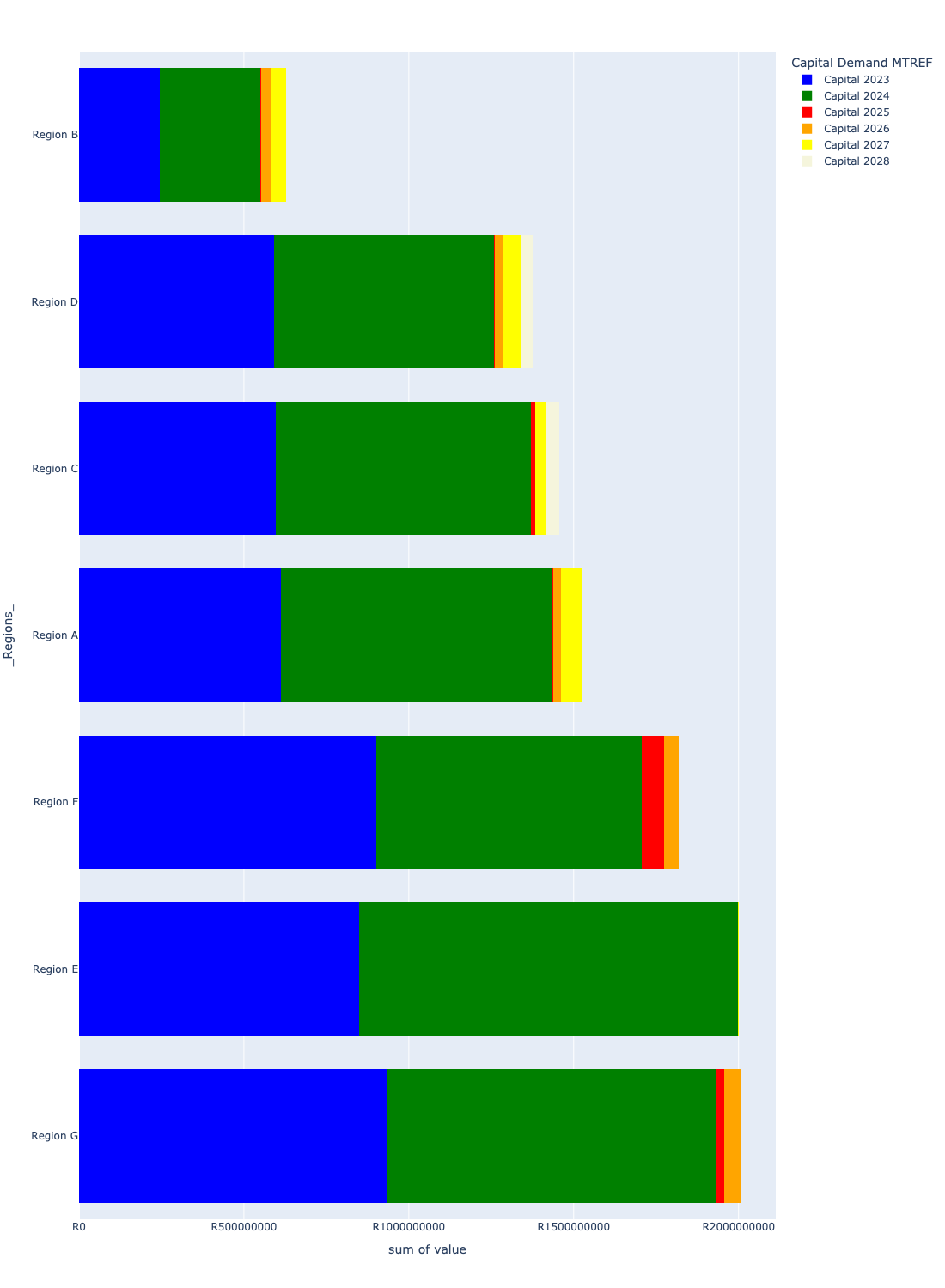
For the financial baseline that was selected for this report query (2022/2023\_MTREF Planning Capture Baseline\_20210823), the breakdown of capital demand for City of Johannesburg Metropolitan Municipality per department is shown in Figure 3.2 below.

Figure 3.2: Capital Demand Per City of Johannesburg Metropolitan Municipality Department



The following figures provide a histogram representation of the capital demand per Region. A colour breakdown is provided of each year's sub-total that contribute towards the overall total capital demand of each Region. Note that the capital demand beyond the first three years representing the Medium Term Expenditure Framework (MTREF - years 2023, 2024 and 2025) are generally more sparsely and less diligently populated, therefore less reliance should be vested on these outer years when appraising the overall capital demand. The reason for this is usually because of National Treasury's requirement for annual budget submissions spanning only over the MTREF (i.e. the next three years).

Figure 3.3: Capital Demand per Region - All Years



# Total Capital Demand per Region - MTREF only

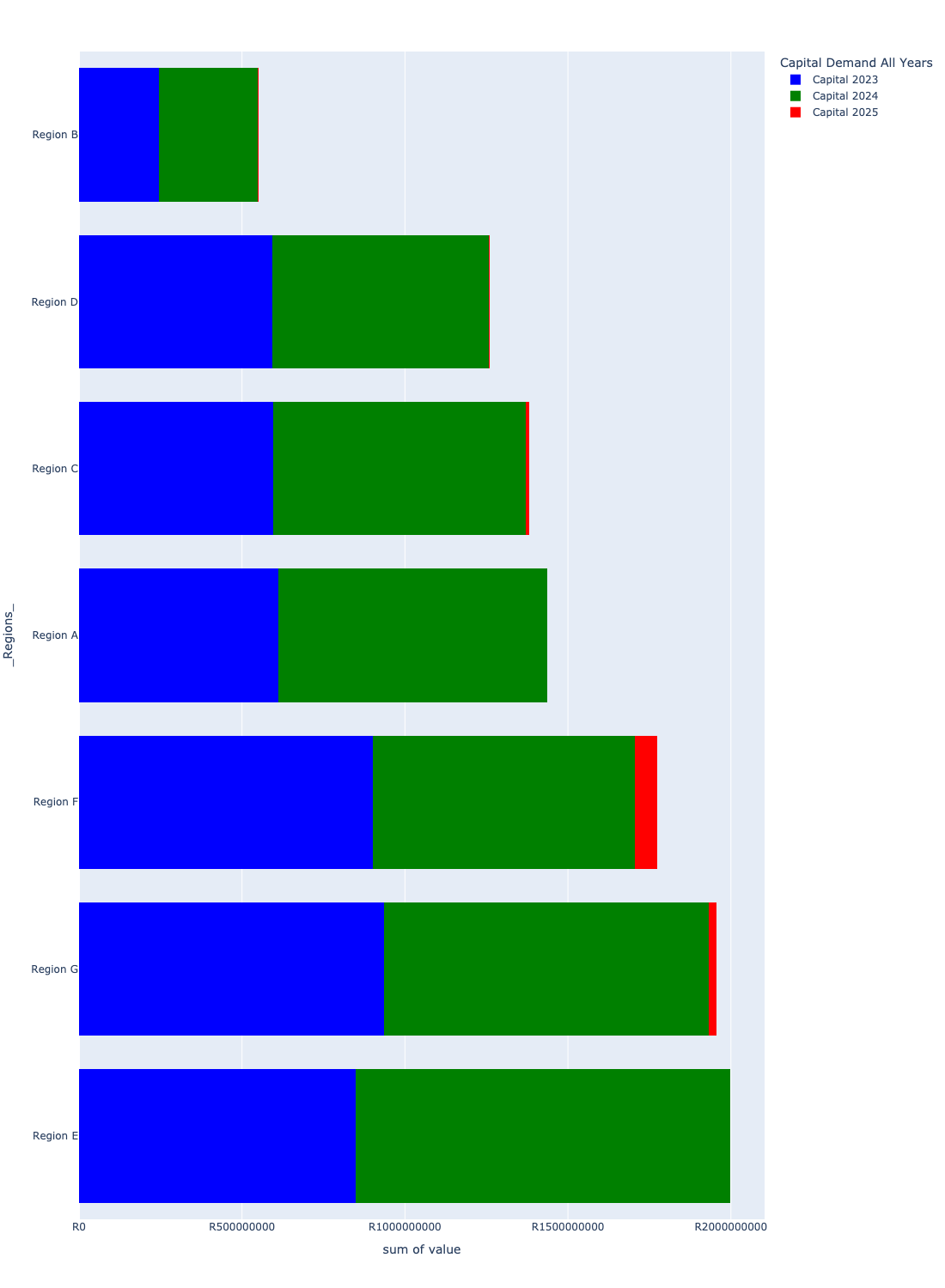
Table 4.1 below provides a concise summary of key statistical insights regarding the total MTREF capital demand per Region.

Table 4.1: Regions Analysis - MTREF Capital Demand (R)

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Info (1) | Info (2) | Info (3) |
| MTREF Capital demand in all Regions - Overview | MTREF capital demand in all Regions: R10,360,543,838 | The average MTREF capital demand per Region: R1,480,077,691 | The 75th percentile of MTREF capital demand for Regions: R1,865,698,755 |
| The highest MTREF capital demand | In Region: Region E | MTREF capital Demand in Region E: R1,998,157,286 | Percentage of total MRTEF capital demand in Region E: 19.29% |
| The lowest MTREF capital demand | In Region: Region B | MTREF capital Demand in Region B: R551,145,584 | Percentage of total MTREF capital demand in Region B: 5.32% |

The following figures provide a histogram representation of the capital demand per Region. A colour breakdown is provided of each year's sub-total that contribute towards the overall MTREF total capital demand of each Region.

Figure 4.1: Capital Demand per Region - MTREF Period



# Summary per Region

## Region A

Figure 5.1: Region A Funding Requests

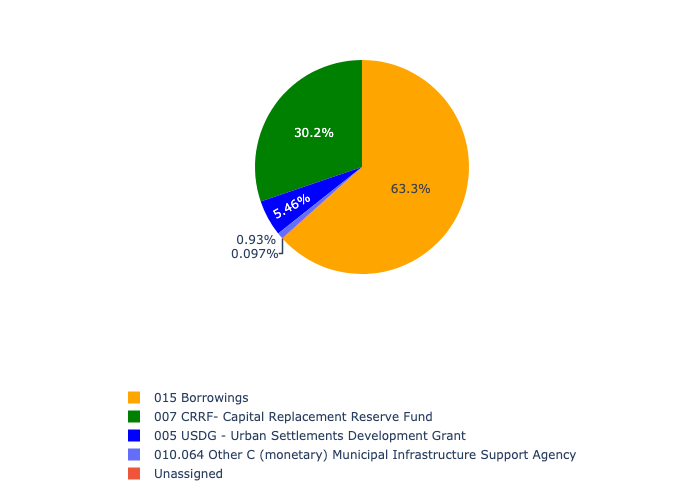


Figure 5.2: Region A Departmental Requests

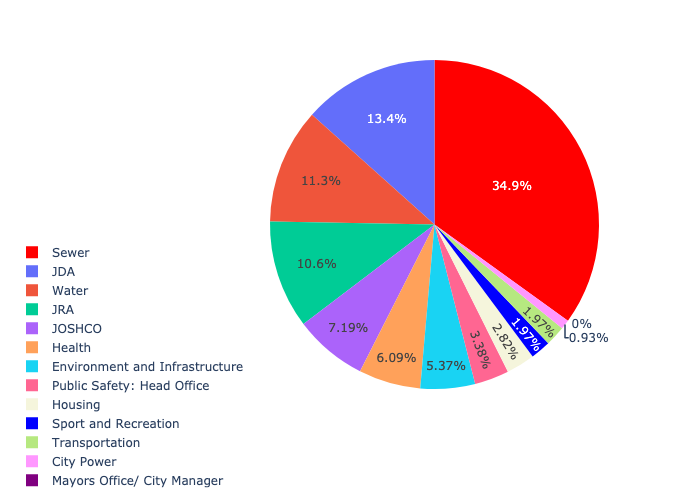


Table 5.1: Summary - Region A

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region A - All Years | R1,522,969,214 Rank: 4 (1 = Highest) |
| Total Capital Demand for Region A - MTREF | R1,522,969,214 Rank: 4 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region A | 2023, 2024, 2025, 2026 and 2027 |
| Financial Year with highest capital demand for Region A | Capital 2024 |
| Region A intersecting feature used | Works Location |
| Total number of projects intersecting with Region A | 342 Rank: 3 (1 = Highest) |

## Region B

Figure 5.3: Region B Funding Requests

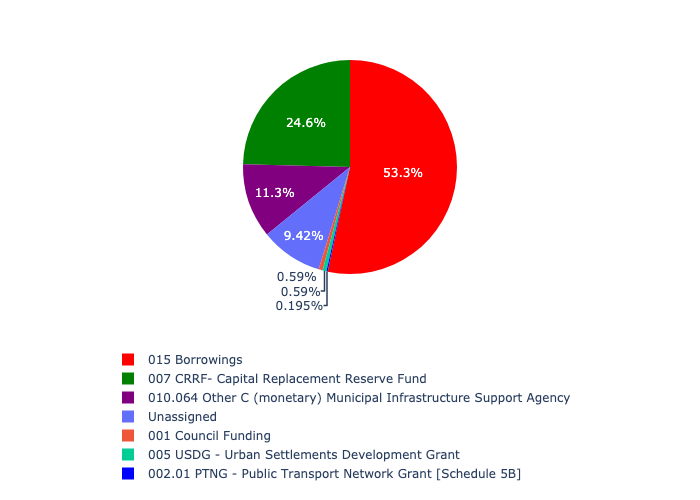


Figure 5.4: Region B Departmental Requests

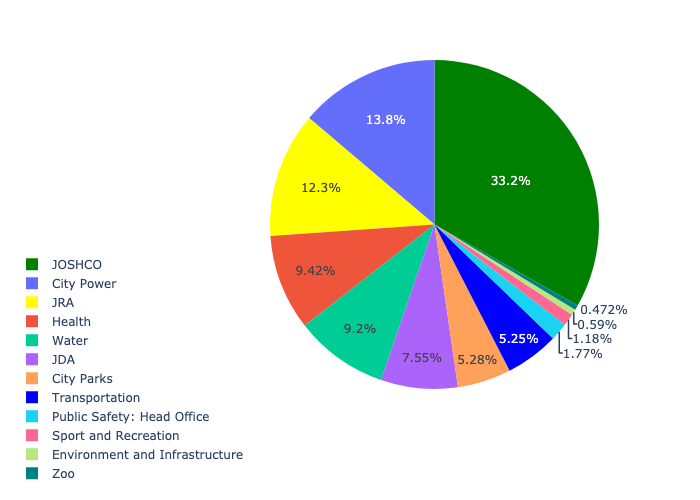


Table 5.2: Summary - Region B

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region B - All Years | R628,374,717 Rank: 7 (1 = Highest) |
| Total Capital Demand for Region B - MTREF | R628,374,717 Rank: 7 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region B | 2023, 2024, 2025, 2026 and 2027 |
| Financial Year with highest capital demand for Region B | Capital 2024 |
| Region B intersecting feature used | Works Location |
| Total number of projects intersecting with Region B | 320 Rank: 4 (1 = Highest) |

## Region C

Figure 5.5: Region C Funding Requests

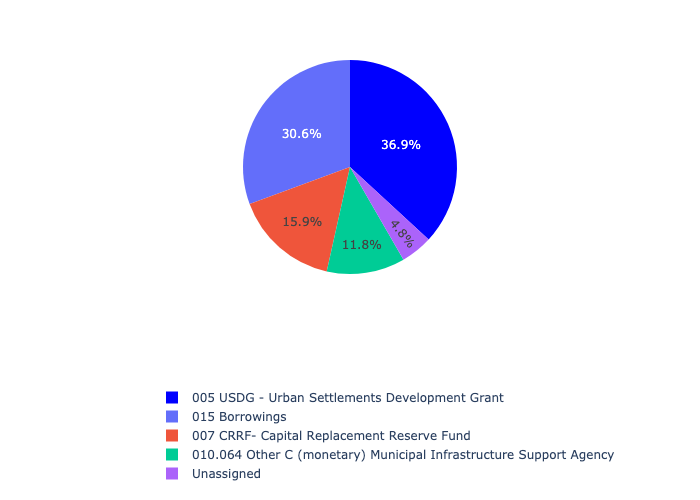


Figure 5.6: Region C Departmental Requests

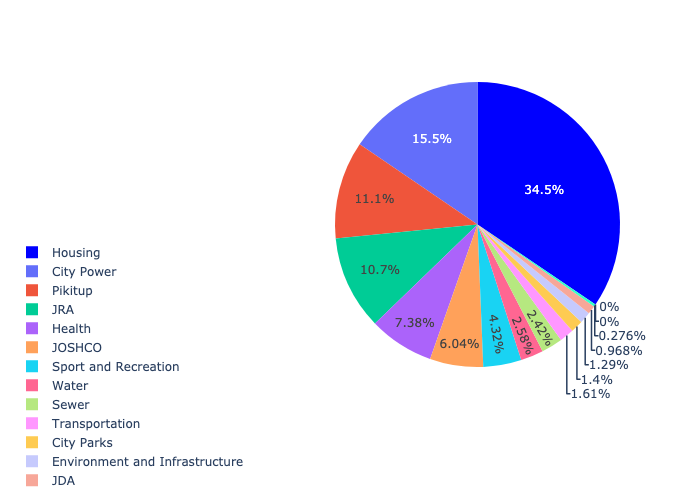


Table 5.3: Summary - Region C

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region C - All Years | R1,455,127,493 Rank: 5 (1 = Highest) |
| Total Capital Demand for Region C - MTREF | R1,455,127,493 Rank: 5 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region C | 2023, 2024, 2025, 2026, 2027 and 2028 |
| Financial Year with highest capital demand for Region C | Capital 2024 |
| Region C intersecting feature used | Works Location |
| Total number of projects intersecting with Region C | 354 Rank: 2 (1 = Highest) |

## Region D

Figure 5.7: Region D Funding Requests

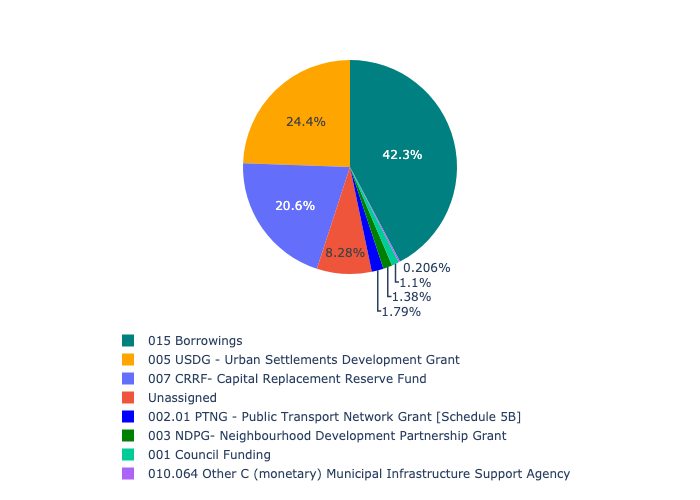


Figure 5.8: Region D Departmental Requests

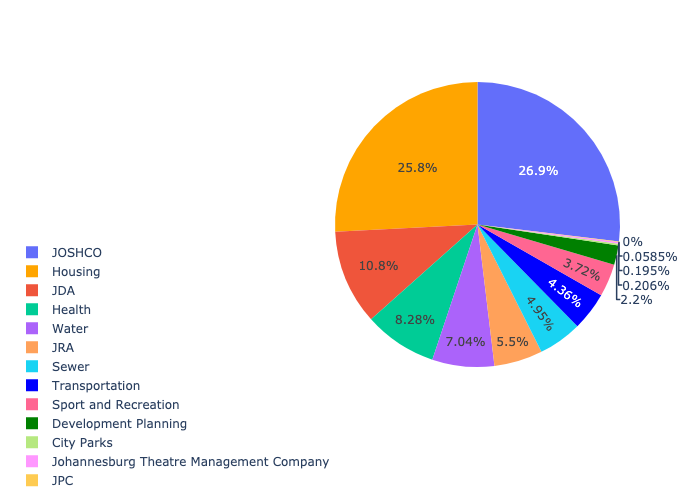


Table 5.4: Summary - Region D

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region D - All Years | R1,378,435,455 Rank: 6 (1 = Highest) |
| Total Capital Demand for Region D - MTREF | R1,378,435,455 Rank: 6 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region D | 2023, 2024, 2025, 2026, 2027 and 2028 |
| Financial Year with highest capital demand for Region D | Capital 2024 |
| Region D intersecting feature used | Works Location |
| Total number of projects intersecting with Region D | 260 Rank: 7 (1 = Highest) |

## Region E

Figure 5.9: Region E Funding Requests

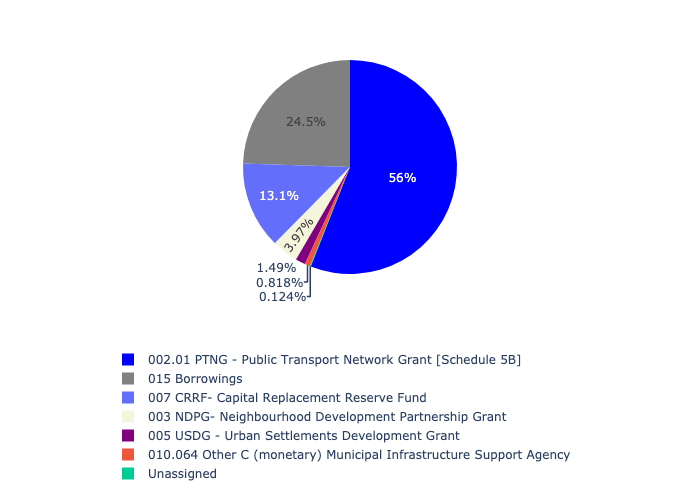


Figure 5.10: Region E Departmental Requests

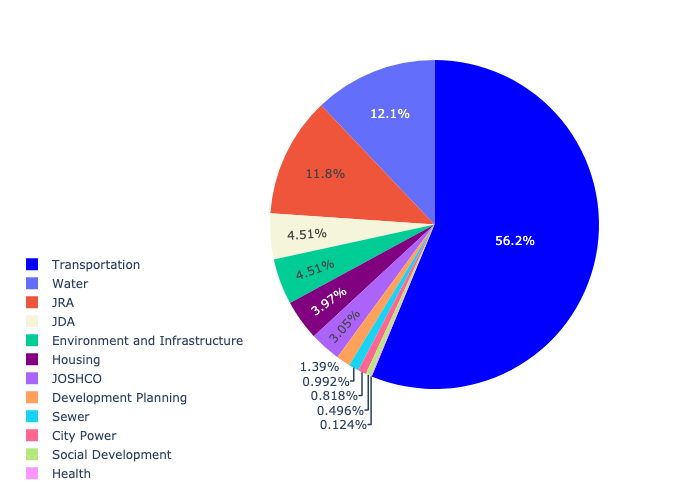


Table 5.5: Summary - Region E

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region E - All Years | R1,999,826,986 Rank: 2 (1 = Highest) |
| Total Capital Demand for Region E - MTREF | R1,999,826,986 Rank: 1 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region E | 2023, 2024, 2025, 2026 and 2027 |
| Financial Year with highest capital demand for Region E | Capital 2024 |
| Region E intersecting feature used | Works Location |
| Total number of projects intersecting with Region E | 310 Rank: 5 (1 = Highest) |

## Region F

Figure 5.11: Region F Funding Requests

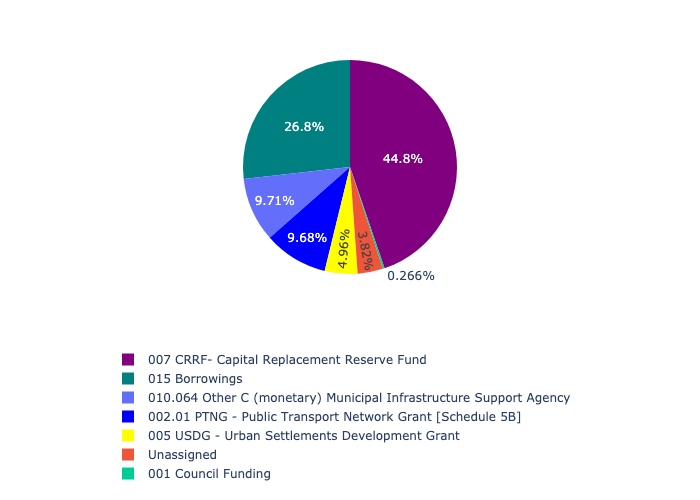


Figure 5.12: Region F Departmental Requests

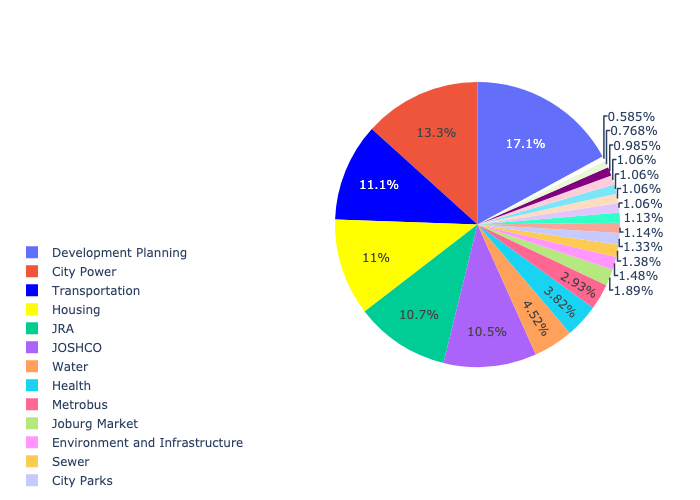


Table 5.6: Summary - Region F

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region F - All Years | R1,819,191,797 Rank: 3 (1 = Highest) |
| Total Capital Demand for Region F - MTREF | R1,819,191,797 Rank: 3 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region F | 2023, 2024, 2025, 2026 and 2027 |
| Financial Year with highest capital demand for Region F | Capital 2023 |
| Region F intersecting feature used | Works Location |
| Total number of projects intersecting with Region F | 586 Rank: 1 (1 = Highest) |

## Region G

Figure 5.13: Region G Funding Requests

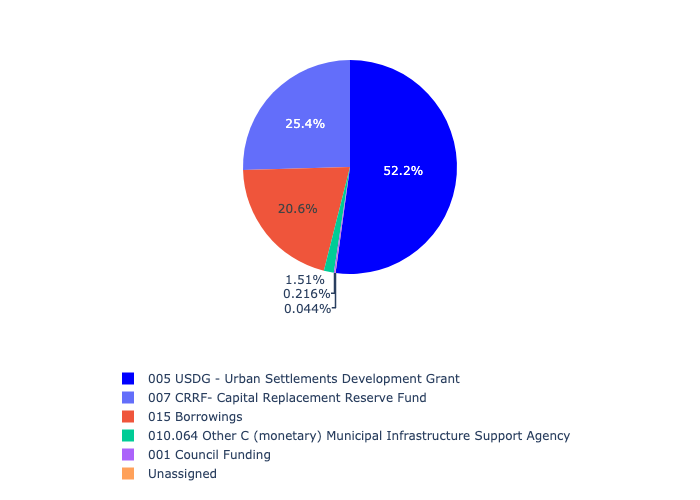


Figure 5.14: Region G Departmental Requests

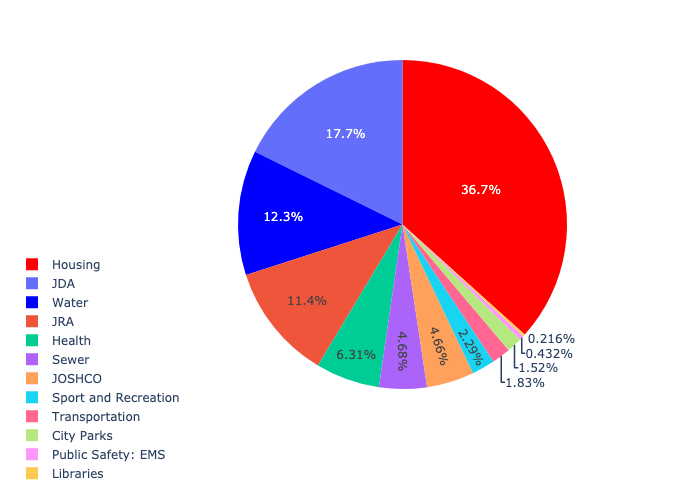


Table 5.7: Summary - Region G

|  |  |
| --- | --- |
| Item | Description |
| Total Capital Demand for Region G - All Years | R2,007,118,178 Rank: 1 (1 = Highest) |
| Total Capital Demand for Region G - MTREF | R2,007,118,178 Rank: 2 (1 = Highest) |
| Financial Years in which capital requirements are listed for Region G | 2023, 2024, 2025, 2026 and 2027 |
| Financial Year with highest capital demand for Region G | Capital 2024 |
| Region G intersecting feature used | Works Location |
| Total number of projects intersecting with Region G | 267 Rank: 6 (1 = Highest) |