**Report on ECDE Enrollment Trends in Mbooni Sub-County (2018–2022)**

**Introduction**

This report focuses on the analysis of ECDE enrollment data in Mbooni Sub-County for the wards of Mbooni, Tulimani, Kithungo/Kitundu, Kalawa, Kako/Waia, and Kisau/Kiteta. The data encompasses both public and private enrollments from 2018 to 2022, aiming to identify trends in the number of enrollments and the relationship between public and private ECDE centers.

Data Summary

The dataset includes public, private, and total enrollments across the years 2018 to 2022 for each ward, which is summarized as follows:

| **Ward** | **Public (2018-2022)** | **Private (2018-2022)** | **Total (2018-2022)** |
| --- | --- | --- | --- |
| Mbooni | 9,009 | 590 | 9,599 |
| Tulimani | 7,094 | 677 | 7,771 |
| Kithungo/Kitundu | 7,492 | 0 | 7,492 |
| Kalawa | 6,545 | 704 | 7,249 |
| Kako/Waia | 5,520 | 540 | 6,060 |
| Kisau/Kiteta | 8,978 | 1,115 | 10,093 |

Total Enrollment Trends (2018–2022)

Kisau/Kiteta had the highest total enrollments over the five-year period, reaching a total of 10,093.

Kithungo/Kitundu, despite having no private enrollments, recorded a total of 7,492 public enrollments.

Mbooni had the second-highest total enrollments, with 9,599, followed by Tulimani with 7,771 enrollments.

Proportions of Public vs Private Enrollment

Public enrollment consistently exceeds private enrollment in all wards. The proportions of public and private enrollment, considering total enrollments for the years 2018–2022, are as follows:

Public Enrollment: 89.24%

Private Enrollment: 10.76%

Visual Representation

**Bar Plot: Public vs Private Enrollment by Ward (2018–2022)**

In all wards, public enrollments exceed private enrollments by a significant margin.

Kisau/Kiteta shows the highest private enrollment contribution with 1,115 private enrollments, yet public enrollments still constitute the majority at 8,978.

Kithungo/Kitundu shows no private enrollments over the five years.



Pie Charts: Public vs Private Enrollment by Ward

Mbooni: Public enrollment constitutes 93.85%, and private enrollment accounts for 6.15%.

Tulimani: Public enrollment makes up 91.29%, while private enrollment stands at 8.71%.

Kako/Waia: Public enrollment is 91.09%, and private enrollment is 8.91%.















These visualizations emphasize that public ECDE centers are the dominant providers of early childhood education in Mbooni Sub-County.

Correlation Analysis

**Correlation between Public and Private Enrollment (2018–2022)**

The correlation coefficient between public and private enrollments for Mbooni Sub-County is 0.392, indicating a low positive correlation. This suggests a slight tendency for private enrollments to increase in response to public enrollments, but the relationship is weak.

Scatter Plots

**Public vs Private Enrollment**

A scatter plot of public and private enrollments reveals a weak upward trend, suggesting that in some cases, as public enrollments increase, private enrollments may also rise. However, the trend is not significant.



**Public vs Total Enrollment**

A scatter plot of public enrollments against total enrollments shows a stronger positive relationship, reinforcing the fact that public enrollments are the primary driver of total enrollments in the sub-county.



**Private vs Total Enrollment**

The scatter plot of private versus total enrollments indicates a weaker relationship. Private enrollments contribute less to the overall enrollment figures, though their impact is still noticeable in certain wards.



Conclusion

The data analysis reveals that public ECDE centers are the primary providers of early childhood education in Mbooni Sub-County, with private enrollments playing a much smaller role. Kisau/Kiteta recorded the highest overall enrollment across the five years, while Kithungo/Kitundu did not report any private enrollments. The weak correlation between public and private enrollments suggests that changes in public enrollment numbers do not strongly influence private enrollments.