

Q1 - 2023

# PENSION SCHEMES INVESTMENT PERFORMANCE SURVEY

Actuarial Services (E.A) Ltd.

many mallon

Insurance | Financial | Investment | Risk | Pension | Health | I.T

#### Introduction

The ACTSERV Pension Schemes Investment Performance Survey, prepared by Actuarial Services East Africa Limited (ACTSERV), is a survey on the investment performance of pension schemes in Kenya under segregated funds. In the first quarter of 2023, a sample size of 425 schemes with a total fund value of about Kshs. 950 Billion (excluding Property) were analyzed. The total fund value of the sample including Property and Cash was Kshs. 1,053 Billion.

#### Purpose of the Survey

- 1. The Trustees and Fund Managers will be able to compare the returns/performances of their respective schemes with others that are similar in terms of size and risk appetite.
- 2. The Trustees and Fund Managers will be able to identify which asset categories performed better and compare the results of their scheme's asset categories with those of schemes that are similar in size and risk profile.
- 3. The survey compares the overall returns and the returns in different asset classes within respective risk profile categories.

#### About ACTSERV

Actuarial Services East Africa Limited (ACTSERV) has been providing services to the East African Market since 2001.

The services we offer include:

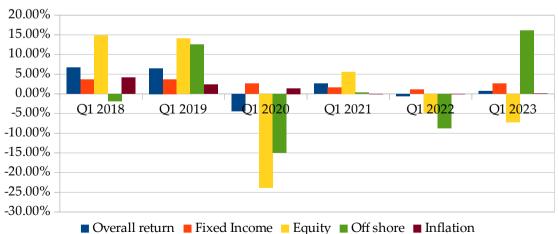
- Investment Consulting
- Retirement Fund Consulting
- Post Retirement Medical Consulting
- Life Insurance Consulting
- General and Health Care Insurance Consulting
- Management Consulting
- IT Services and Enterprise Risk Management

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QUARTER SUMMARY		QUARTER (3 – MONTHS)						
	Q1 2019	Q1 2020	Q1 2021	Q1 2022	Q1 2023			
Total Fund Value (Kshs. Bn)	813	747	873	938	950			
Sample Size	426	421	422	429	425			
Overall Return	6.5%	-4.4%	2.6%	-0.6%	0.8%			
Fixed Income	3.7%	2.6%	1.6%	1.1%	2.6%			
Equity	14.0%	-23.9%	5.6%	-4.8%	-7.2%			
Off Shore	12.5%	-14.9%	0.3%	-8.7%	16.0%			
Inflation	2.4%	1.4%	0.01%	0.01%	0.02%			

## Quarterly Figures All Schemes



Overall returns computed for the quarter ending 31<sup>st</sup> March 2023 was **0.8%** compared to **-0.6%** recorded in the same quarter last year and **2.6%** in Q1 2021.

The performance was largely driven by positive returns in Fixed Income of **2.6%** from **1.1%** in Q1 2022. These were majorly as a result of rising yields as investors pushed for compensation against a weakening Shilling, sustained inflationary pressures and high domestic borrowing.

Equities asset class declined to -7.2% from -4.8% while Offshore rose to 16.0% from -8.7% in Q1 2022. The decline in Local Equities was attributable to foreign investor outflows following the Dollar liquidity constraints and high interest rate environment in developed markets. The rise in Offshore performance was linked to easing inflation and improved sentiments with regard to China's reopening.



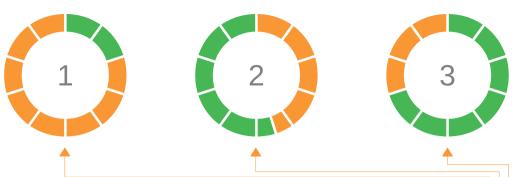
#### **RISK PROFILE**

Suggested Asset Allocation Breakdown

- The risk profile is divided into three categories namely conservative, moderate and aggressive.
- The suggested asset allocation breakdown per risk profile is divided into non-interest bearing assets and interest bearing assets.
- The non-interest bearing assets comprise of Equities, Offshore and Property whereas the interest bearing assets comprise of Government Securities, Fixed and Time Deposits, Commercial Paper, Corporate Bonds and Call Deposits.

#### ACTSERV Pension Schemes Investment Performance Survey (Quarter 1, 2023)

## **RISK PROFILE CATEGORIES**



## **Conservative Risk Profile**



Non-interest bearing assets (0% - 20%) Interest bearing assets (80%-100%)

## Moderate Risk Profile



Non-interest bearing assets (21%-45%) Interest bearing assets (55%-79%)

## **Aggressive Risk Profile**

- Non-interest bearing assets (46%-70%)
- Interest bearing assets (30%-54%)

Small

Large

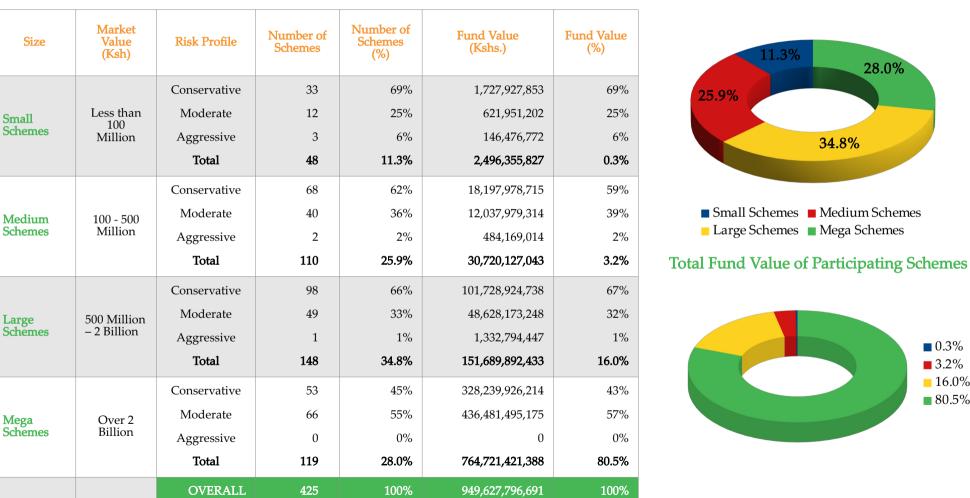
Mega

## SAMPLE SIZE

Number of Participating Schemes

34.8%

28.0%





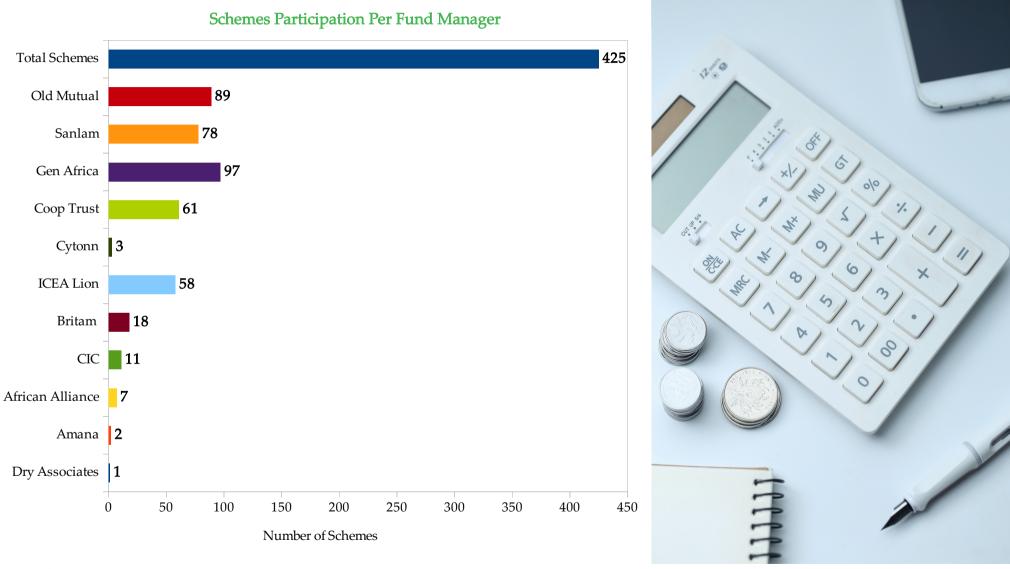
0.3%

3.2% **16.0%** 

80.5%

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#### ACTSERV Pension Schemes Investment Performance Survey (Quarter 1, 2023)

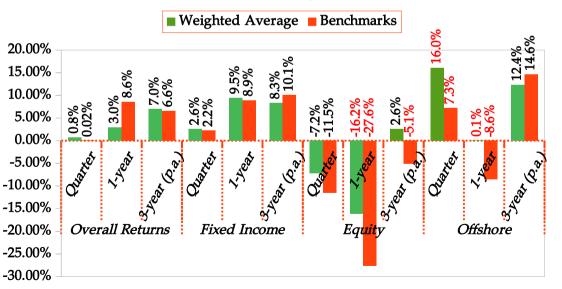


	Overall Returns				Fixed Income			Equity			Offshore		
	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	
Weighted Average	0.8%	3.0%	7.0%	2.6%	9.5%	8.3%	-7.2%	-16.2%	2.6%	16.0%	0.1%	12.4%	
Average	0.9%	3.7%	8.9%	2.6%	9.7%	10.4%	-6.9%	-16.6%	3.3%	17.7%	-1.1%	15.3%	
Highest	5.1%	12.6%	11.2%	4.4%	13.8%	13.2%	27.0%	22.0%	13.1%	31.5%	92.4%	56.7%	
Lowest	-3.4%	-15.3%	-1.4%	0.3%	4.4%	3.3%	-28.7%	-44.1%	-15.6%	1.5%	-11.6%	-6.9%	
50 <sup>th</sup> Percentile	0.9%	3.5%	9.0%	2.6%	9.7%	10.5%	-7.3%	-17.3%	3.3%	17.4%	-4.0%	17.7%	
Benchmarks	0.02 %	8.6%	6.6%	2.2%	8.9%	10.1%	-11.5%	-27.6%	-5.1%	7.3%	-8.6%	14.6%	

### PERFORMANCE ANALYSIS - ALL SCHEMES ANALYSIS

**OVERALL RETURN BY ASSET CATEGORY** 

#### All Schemes Average Returns



Schemes posted a weighted average return of **0.8%**, **3.0%** and **7.0%** for the quarter, 1-year and 3-year annualized periods compared to **0.6%**, **8.0%** and **7.6%** recorded in Q1 2022. This quarter recorded mixed performance compared to last quarter's **2.3%**, **1.7%** and **6.0%** in the quarter, 1-year and 3-year performance respectively.

Fixed Income posted mixed performance of **2.6%**, **9.5%** and **8.3%** for the quarter, 1-year and 3-year periods compared to **2.9%**, **8.0%** and **9.0%** in Q4 2022 as well as **1.1%**, **8.6%** and **8.5%** in Q1 2022.

Equities recorded mixed performance of **-7.2%**, **-16.2%** and **2.6%** for the quarter, 1-year and 3-year periods compared to **-4.8%**, **6.2%** and **4.3%** in Q1 2022.

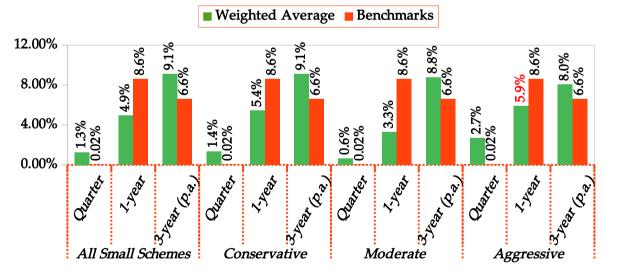
Offshore performance increased over the quarter, posting a **16.0%** return compared to **-8.7%** while declining to **0.1%** and **12.4%** for the 1-year and 3-year periods compared to **8.4%** and **14.2%** reported in Q1 2022.

	All Small Schemes			Conservative			Moderate			Aggressive		
	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)
Weighted Average	1.3%	4.9%	9.1%	1.4%	5.4%	9.1%	0.6%	3.3%	8.8%	2.7%	5.9%	8.0%
Average	1.4%	5.2%	8.9%	1.6%	5.8%	9.1%	0.7%	3.6%	8.7%	2.6%	5.7%	8.0%
Highest	5.1%	12.6%	11.2%	4.5%	12.1%	11.2%	1.9%	7.1%	9.5%	5.1%	12.6%	8.3%
Lowest	-0.4%	-4.1%	3.3%	-0.4%	-4.1%	3.3%	0.0%	1.1%	7.8%	1.4%	2.1%	7.8%
50 <sup>th</sup> Percentile	1.2%	4.3%	9.1%	1.6%	4.4%	9.2%	0.6%	3.5%	8.6%	1.4%	2.2%	8.0%
<b>Overall Inflation</b>	0.02%	8.6%	6.6%	0.02%	8.6%	6.6%	0.02%	8.6%	6.6%	0.02%	8.6%	6.6%

#### SMALL SCHEMES ANALYSIS

#### **OVERALL RETURNS**

#### Small Schemes Overall Average Returns



Small Schemes recorded a weighted average return of **1.3%**, **4.9%** and **9.1%** for the quarter, 1-year and 3-year annualized periods. This is in comparison to **2.3%**, **3.3%** and **7.5%** recorded in Q4 2022, indicating an increase over the 1-year and 3-year periods. The quarter, 1-year and 3-year return posted mixed performance compared to **-0.1%**, **9.2%** and **8.9%** recorded in Q1 2022.

Small Aggressive Schemes has a better performance on average for the quarter and 1-year periods while Small Conservative Schemes took the win in the 3-year period.

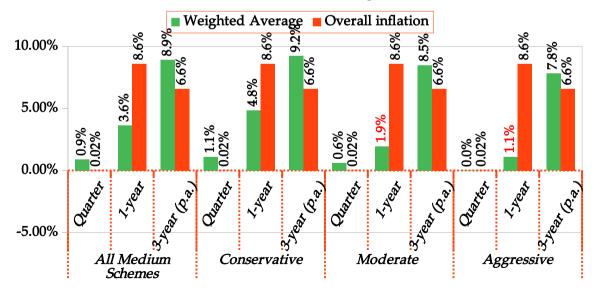
The overall All Small Schemes returns were above the benchmark for the quarter and 3-year periods, but below the benchmark for the 1-year period.

**OVERALL RETURNS** 

	All Medium Schemes			Conservative			Moderate			Aggressive		
	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)	Quarter	1-year	3-year (p.a)
Weighted Average	0.9%	3.6%	8.9%	1.1%	4.8%	9.2%	0.6%	1.9%	8.5%	-0.03%	1.1%	7.8%
Average	0.9%	3.7%	8.9%	1.1%	4.8%	9.2%	0.6%	1.9%	8.5%	-0.2%	1.0%	7.8%
Highest	3.7%	9.5%	11.1%	3.7%	9.5%	11.1%	2.0%	4.4%	9.8%	1.3%	2.1%	8.1%
Lowest	-1.6%	-15.3%	-1.4%	-0.4%	1.0%	8.2%	-0.7%	-15.29%	-1.4%	-1.6%	-0.1%	7.6%
50 <sup>th</sup> Percentile	0.9%	3.7%	9.0%	0.9%	4.4%	9.2%	0.6%	2.2%	8.9%	-0.2%	1.0%	7.8%
<b>Overall Inflation</b>	0.02%	8.6%	6.6%	0.02%	8.6%	6.6%	0.02%	8.6%	6.6%	0.02%	8.6%	6.6%

#### MEDIUM SCHEMES ANALYSIS

#### Medium Schemes Overall Average Returns



All Medium Schemes 1-year and 3-year returns increased from Q4 2022. The weighted average return was **0.9%**, **3.6%** and **8.9%** for the quarter, 1-year and 3-year annualized periods respectively compared to **2.2%**, **2.3%** and **7.2%** recorded in Q4 2022 and **-0.3%**, **9.0%** and **8.9%** recorded in Q1 2022.

Medium Conservative Schemes had the highest returns of **1.1%**, **4.8%** and **9.2%** over the quarter, 1-year and 3-year periods respectively. This is compared to **2.4%**, **4.0%** and **7.9%** in Q4 2022.

Medium Moderate Schemes recorded returns of **0.6%**, **1.9%** and **8.5%** in the quarter, 1-year and 3-year periods from **2.1%**, **1.0%** and **6.7%** returns in Q4 2022.

Medium Aggressive Schemes recorded returns of **-0.03%**, **1.1%** and **7.8%** in the quarter, 1-year and 3-year periods from **1.8%**, **- 3.0%** and **4.9%** respectively in Q4 2022.

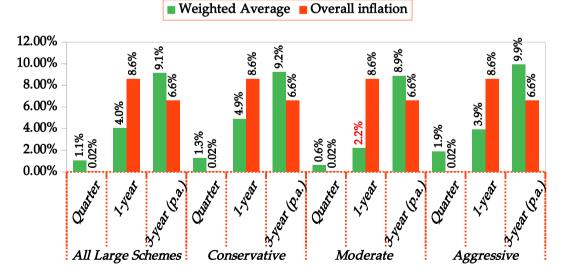
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**OVERALL RETURNS** 

#### All Large Schemes Conservative Moderate Aggressive 1-vear 3-year Ouarter 1-vear 3-year (p.a) Ouarter 1-vear 3-year (p.a) Ouarter 3-year (p.a) Ouarter 1-vear (p.a) 1.1% 4.0% 9.1% 1.3% 4.9% 9.2% 0.6% 2.2% 8.9% 1.9% 3.9% 9.9% Weighted Average 0.9% 3.8% 9.1% 1.2% 4.7% 9.2% 0.6% 2.1% 8.8% 1.9% 3.9% 9.9% Average 2.8% 3.9% Highest 2.8% 9.1% 10.9% 9.1% 10.9% 2.8% 4.9% 10.4% 1.9% 9.9% -2.4% 5.9% 3.9% 9.9% Lowest -0.4% 5.9% -0.4% -2.4% -0.4% -0.2% 7.5% 1.9% 1.9% 3.9% 9.9% 50<sup>th</sup> Percentile 1.0% 3.8% 9.1% 1.1% 4.5% 9.2% 0.5% 1.9% 8.8% 8.6% 0.02% 8.6% 6.6% 0.02% 8.6% 0.02% 8.6% 6.6% **Overall Inflation** 0.02% 6.6% 6.6%

#### LARGE SCHEMES ANALYSIS

#### Large Scheme Overall Average Returns



All Large Schemes 1-year and 3-year returns were higher than Q4 2022. The weighted average return was **1.1%**, **4.0%** and **9.1%** for the quarter, 1-year and 3-year annualized periods respectively compared to **2.3%**, **2.8%** and **7.5%** recorded in Q4 2022 and **-0.3%**, **8.9%** and **6.2%** recorded in Q1 2022.

Large Aggressive Schemes posted the best returns for the quarter and 3-year periods. The returns were **1.9%**, **3.9%** and **9.9%** for the quarter, 1-year and 3-year periods from **-0.8%**, **10.5%** and **9.1%** recorded in Q1 2022.

Large Conservative Schemes carried the 1-year period return, recording **1.3%**, **4.9%** and **9.2%** for the quarter, 1-year and 3-year periods, compared to **0.3%**, **8.9%** and **6.8%** posted in Q1 2022.

Large Moderate Schemes recorded returns of **0.6%**, **2.2%** and **8.9%** for the quarter, 1-year and 3-year periods compared to **-0.6%**, **8.9%** and **5.9%** posted in Q1 2022.

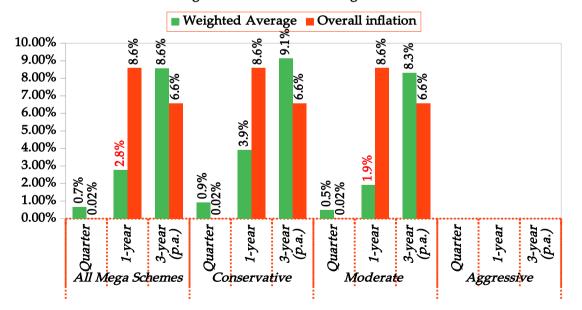
The overall Large Schemes performance was above the benchmark for the quarter and 3-year periods. Page 11

**OVERALL RETURNS** 

#### Moderate All Mega Schemes Conservative Aggressive 3-year (p.a) 3-year (p.a) Ouarter 1-vear 3-year (p.a) Ouarter 1-vear 1-vear Ouarter 1-vear 3-year (p.a) Ouarter 0.9% 3.9% Weighted Average 0.7% 2.8% 8.6% 9.1% 0.5% 1.9% 8.3% 0.8% 2.9% 8.7% 0.9% 9.0% 2.0% 4.1% 0.6% 8.4% Average 10.1% 3.8% 10.1% 11.2% 2.3% 6.0% 10.3% 3.8% 11.2% Highest -3.4% -4.1% 2.3% -0.7% 0.4% 7.0% -3.4% -4.1% 2.3% Lowest 0.9% 0.7% 50<sup>th</sup> Percentile 0.7% 2.6% 8.7% 3.6% 9.1% 1.9% 8.5% **Overall Inflation** 0.02% 8.6% 6.6% 0.02% 8.6% 6.6% 0.02% 8.6% 6.6%

#### MEGA SCHEMES ANALYSIS

#### Mega Schemes Overall Average Returns



All Mega Schemes 1-year and 3-year returns were higher than Q4 2022. The weighted average return was **0.7%**, **2.8%** and **8.6%** for the quarter, 1-year and 3-year annualized periods respectively compared to **2.3%**, **1.5%** and **6.8%** recorded in Q4 2022 and **-0.6%**, **7.8%** and **7.3%** in Q1 2022.

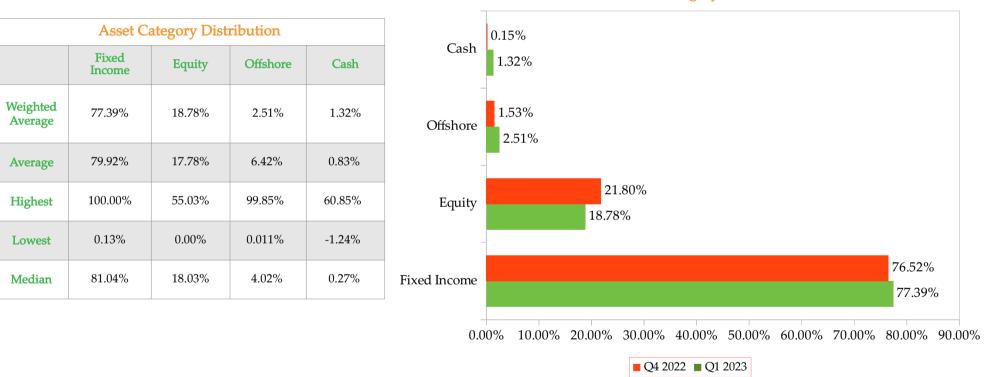
Mega Conservative Schemes recorded the best performance over all periods. These returns were **0.9%**, **3.9%** and **9.1%** for the quarter, 1-year and 3-year periods from **0.3%**, **8.1%** and **8.3%** in Q1 2022.

Mega Moderate Schemes posted returns of **0.5%**, **1.9%** and **8.3%** over the quarter, 1-year and 3-year periods compared to **-0.7%**, **7.7%** and **7.2%** recorded in Q1 2022.

All Mega Schemes weighted return outperformed the benchmark across the quarter and 3-year periods.



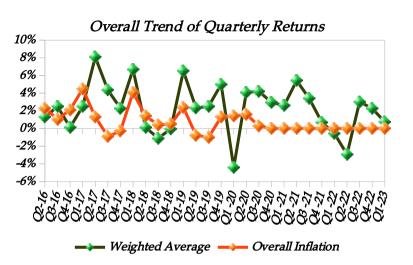
### ASSET DISTRIBUTION ANALYSIS



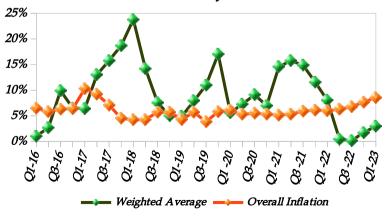
#### **Asset Category Distribution**

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## **RETURN TRENDS**



Overall Trend 1-year Returns



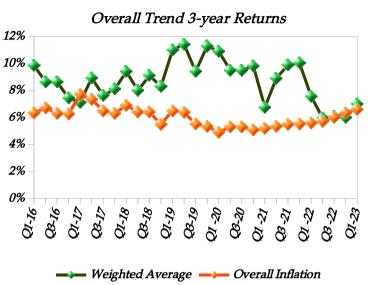
## **Overall Return Trends**

Since Q2-16, overall quarter returns have been above inflation except in Q4-16, Q1-17, Q2-18, Q3-18, Q4-18, Q1-20, Q1-22 and Q2-22 where inflation was higher.

Q1-23 overall Quarter return outperfomed inflation but declined from Q4-22. This is attributable to a strained macro environment, riddled with elevated inflation, debt repayment vulnerabilities and downstream effects of an unstable global market.

The variance between the quarterly returns and inflation have been elevated.

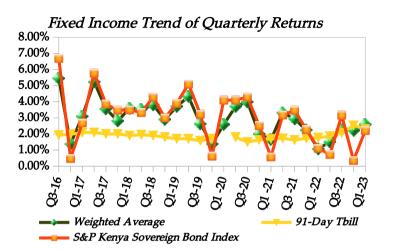
Since Q2 2016, the overall trend of 1year return has generally outperformed the inflation benchmark except in Q2-2016, Q1-2017, Q4-2018, Q1-2020, Q2-22, Q3-22, Q4-22 and Q1-23. In the last three quarters, overall return has underperformed inflation.

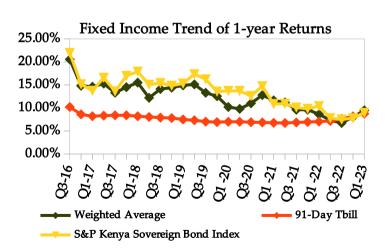


From Q1-16, the overall 3-year annualized return has remained above the inflation benchmark except in Q1-17 and Q4-22. The return increased over the quarter to **7.0%** from **6.0%** in Q4-22 but declined from **7.6%** in Q1-22.

Since Q2-16's return of **8.64%**, 2019 had the best returns over most quarters of **11.00%** in Q1-19, **11.42%** in Q2-19 and **11.3%** in Q4 -19.







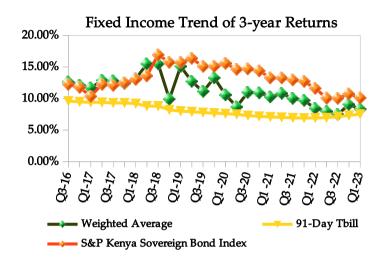
## Fixed Income Return Trends

The quarterly Fixed Income returns have been volatile and generally mirrored the S&P Kenya benchmark.

Since Q2-16 the lowest realized quarterly Fixed Income return was in Q4-16 at **1.39%**, Q4-19 at **1.4%**, Q1-21 at **1.6%**, Q1-22 at **1.1%** and Q2-22 at **1.5%**. The highest return was **5.4%** in Q3-16.

The 1-year Fixed Income returns have been more stable than the quarterly returns and have remained consistent with the S&P Kenya benchmark.

The highest realized 1 year Fixed Income return was **20.54%** in Q3-16. Q1-23 return of **9.5%** was an increase from **8.0%** in Q4-22.

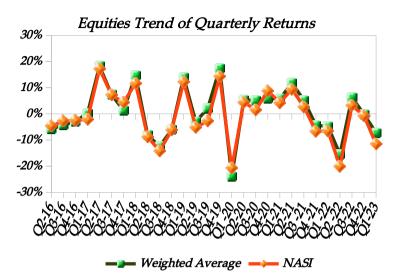


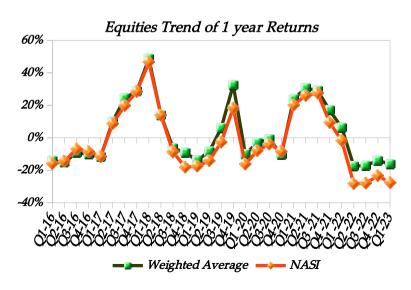
Since Q2-21, the 3-year annualized returns have steadily declined in consecutive quarters up until Q4-22 when they rose to **9.0%**.

Since Q2-16, the highest 3 year Fixed Income return was recorded in Q2-18 at **15.51%**. Q1-23 return of **8.3%** was a decline from **9.0%** in Q4-22.

Since Q3-18, the returns have under performed the S&P Kenya Sovereign Bond Index.

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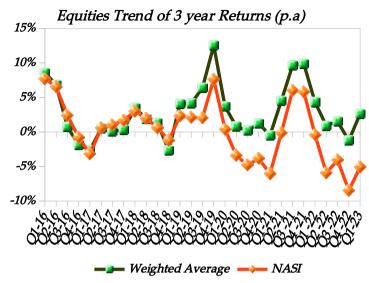


## **Equities Trend**

From Q2-16, quarterly Equities returns have remained volatile but above the NASI benchmark index, except in Q2-16 to Q4-16, Q4-17, Q1-20 and Q4-20.

The weighted average Equities return for all schemes have sharply declined to **-7.2%** from **-0.1%** in Q**4**-22. The lowest quarterly Equity return was in Q1-20 at **-23.9%** followed by Q2-22 at **-15.4%** while the highest was in Q2-17 at **18.32%**.

The 1-year Equities returns have also been volatile and remained above the NASI benchmark index, except in Q2-16 to Q1-17, Q2-18 and Q4-20. Highest Equities returns were realized in Q1-18 at **48.70%**, Q4-19 at **32.5%**, Q1-21 at **23.8%**, Q2-21 at **30.7%** and Q3-21 at **29.1%**. The lowest return was in Q2-22 at **-17.5%**.

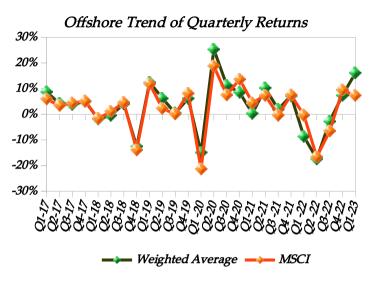


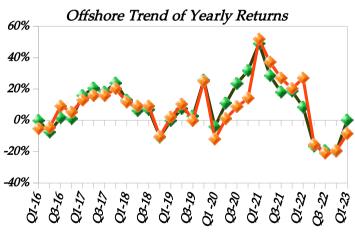
Since Q2-16, the highest 3 year return was **12.5%** in Q4-19 while the lowest was in Q4-18 at **-2.70%**. From Q1-19 the 3-year Equity trend has remained stable above the NASI benchmark index.

Foreign investor outflows have gained momentum from last year when concerns about dividend repatriation became prevalent. The country's Dollar shortage coupled with rising interest rates in developed economies fueled the plight, resulting in Equities decline. The 3-year return in Q1-23 was at 2.6% from 1.2% in Q4.22

**2.6%** from **-1.2%** in Q4-22.







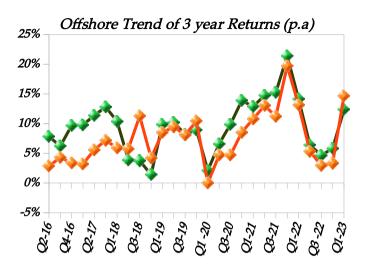
■ Weighted Average —→— MSCI

## **Offshore** Trend

The quarterly Offshore returns have been volatile. They however have closely matched the benchmark performance, outperforming it in certain quarters. In Q1 2023, the above the have been returns benchmark.

Inflation in major global economies has been on a downward trend over the quarter, causing policymakers to slow down the pace of restrictive rate hikes. Weighted average quarter Offshore returns rose over the quarter from 7.4% in O4-22 to 16.0% in O1-23. Since Q1-17 the highest return was 25.30% in Q2-20.

The highest 1-year Offshore return on average for all schemes since Q2 2016 was in Q1-21 at 49.1%, while the lowest was in Q4-22 at -19.8%. The returns in O1-23 increased to 0.1% from -19.8% in Q4-22.



The 3-year Offshore returns have been volatile and closely matched the benchmark performance, outperforming it in most quarters. The highest weighted average return since Q1-17 was at 21.4% in O4-21.

Positive sentiments regarding China's economic rebound, retreating inflation numbers and the change in stance with regards to monetary policies has influenced the rise in 3-year Offshore returns Page 17

from 5.8% in O4-22 to 12.4% in O1-23.





- <u>Conservative Risk Profile</u>: An investing strategy that seeks to preserve an investment portfolio's value by investing a high proportion of assets in lower risk assets such as Fixed Income and Money Market securities.
- 2) <u>Moderate Risk Profile:</u> An investing strategy that seeks to have a balanced proportion between low risk and high risk assets in the investment portfolio.
- 3) <u>Aggressive Risk Profile:</u> An investing strategy that seeks to maximize returns by investing a high proportion of the investment portfolio in high risk assets such as Equities, Offshore and Property.
- <u>Non-Interest Bearing Assets</u>: The total funds invested in Equities, Offshore and Property. Also considered to be high risk assets.

	Quarter	1-Year	3-Years
Standard Deviation	0.83%	2.57%	1.11%
Tracking Error	0.02%	0.34%	0.05%
Information Ratio	36.92	-14.59	2.73
Sharpe Ratio	-55.58	-15.06	-3.23

- 5 <u>Interest Bearing Assets</u>: The total funds invested in Government Securities, Fixed and Time Deposits, Commercial Paper, Corporate Bonds and Call Deposits. Also considered to be low risk assets.
- 6 <u>Information Ratio (IR)</u>: Measures the ability of the schemes to generate excess returns relative to the benchmark (inflation). The higher the IR, the higher the probability of the schemes in beating the benchmark.
- 7 <u>Sharpe Ratio:</u> Measures the ratio of average return earned in excess of the risk free rate per unit of volatility or total risk.
- 8 <u>Standard Deviation</u>: A measure of the dispersion of returns from the mean.
- 9 <u>**Tracking Error:**</u> The difference between the returns of the schemes and that of the benchmark (inflation) the schemes are trying to beat.
- 10 <u>Weighted Average Returns</u>: The average returns weighted by the fund value or respective asset categories where appropriate.

## DISCLAIMER

- This survey relies on the data provided by the fund managers of the participating schemes. The schemes whose data was deemed to be insufficient were not used.
- ACTSERV makes no representation or warranties of any kind on completeness, accuracy or reliability with regards to this report and may not be held liable for any action taken by any party based on the information contained herein.
- The survey does not cover all schemes in the country. However, the schemes covered are a representative sample of all the schemes in terms of both fund value and number.
- ACTSERV would like to thank the participating schemes for the help they accorded in preparing this survey.

## **CONTACT US**

For inquiries, or to participate in subsequent surveys, please contact us at the address below:

Investment Research Team Actuarial Services E.A. Limited 26th Floor, Old Mutual Tower Upper Hill Road, Upper Hill P.O. Box 10472 - 00100 NAIROBI, KENYA Tel. 254 020 2717403/ 2710028 Cell: 0708 710 028/ 0786 710 028 Fax. 254 020 2726844 Email: investmentsurvey@actserv-africa.com Website: www.actserv.co.ke Lead Researcher : Abed Mureithi