

SAI KENYA: GEARED TOWARDS DATA DRIVEN AUDITS

SAI INNOVATIONS FRAMING WEBINAR 2022



Presentation Outline

Introduction

Enabling environment: Governance

Data analytics: our success story

Benefits of data analytics

Future outlook

Conclusion



Introduction

- Advancement in and adoption of technology by public entities has resulted into processing of large volumes of data, which is in different formats. This transformation is harnessing the value of data
- The data-driven world has an impact on the auditors' approach towards financial statement audits.
- Data analytics therefore provides the opportunity to make valuable insights and discover hidden patterns.



Enabling environment: Governance



Strategic focus 2021-2026

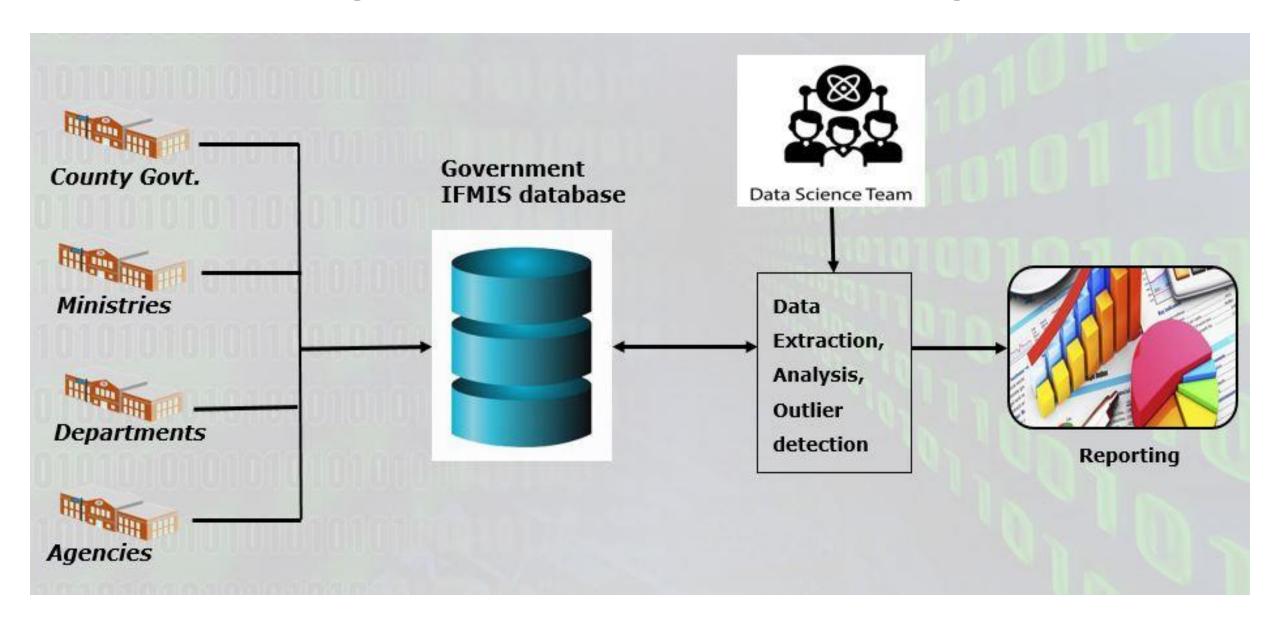
- Enable OAG to be a SAI offering efficient client-focused audit services based on data, risk and intelligence

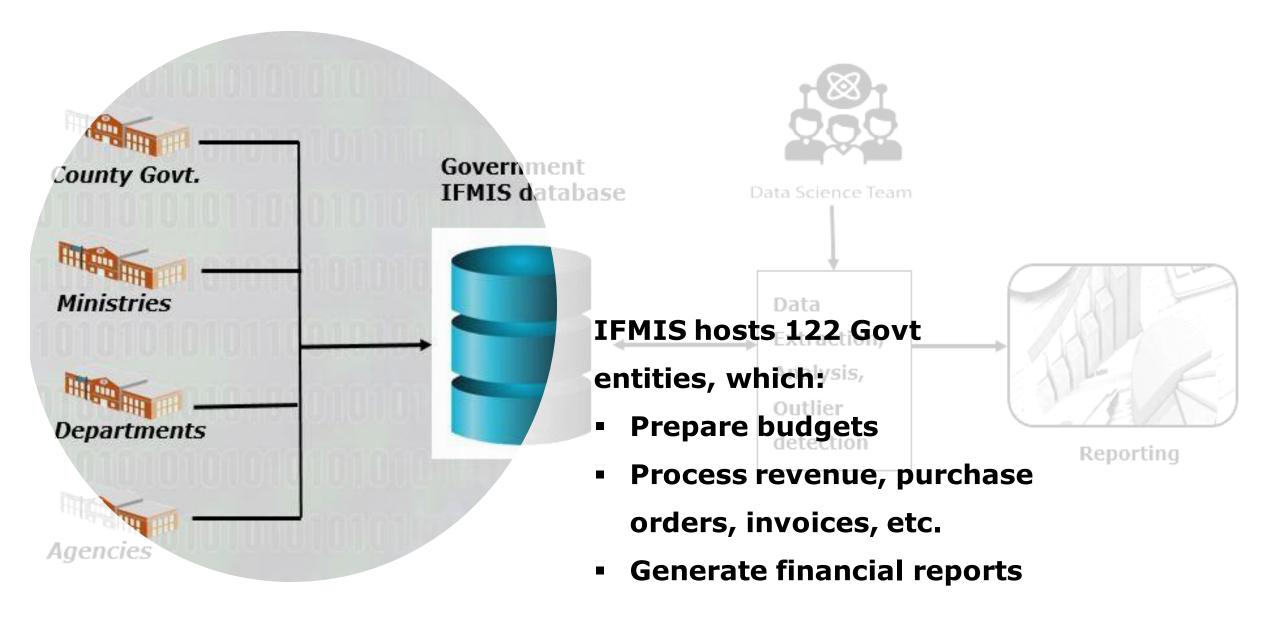
- Dedicated *Data Science* unit

 within the

 organization

 structure
- Ability to specialize





Data analysis tools are used to identify exceptions and make valuable insights including:

County Govt.

Ministries

Departments

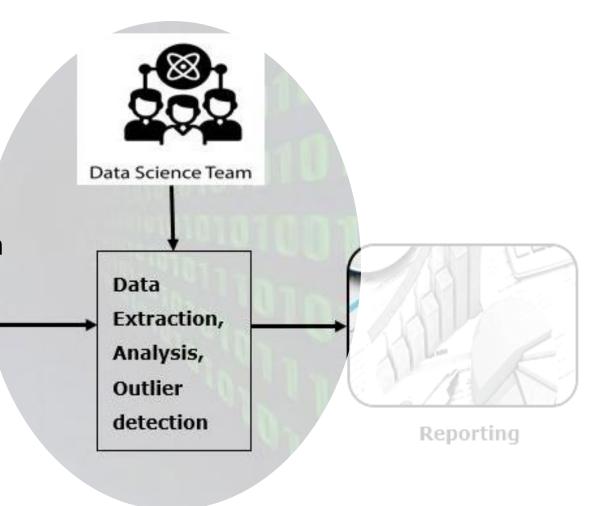
Agencies

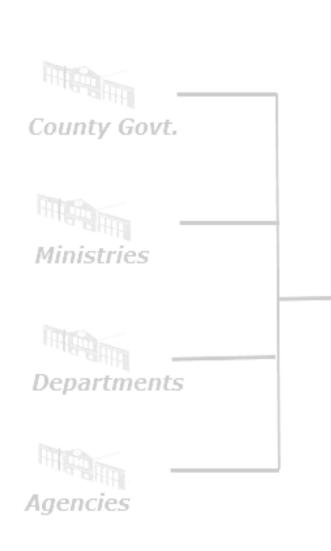
Invoices not matched with purchase orders

Unusual transactions

Irregular patterns using Benford analysis

 Trend analysis on budgets to detect anomalies





Reporting:

122 reports are issued to

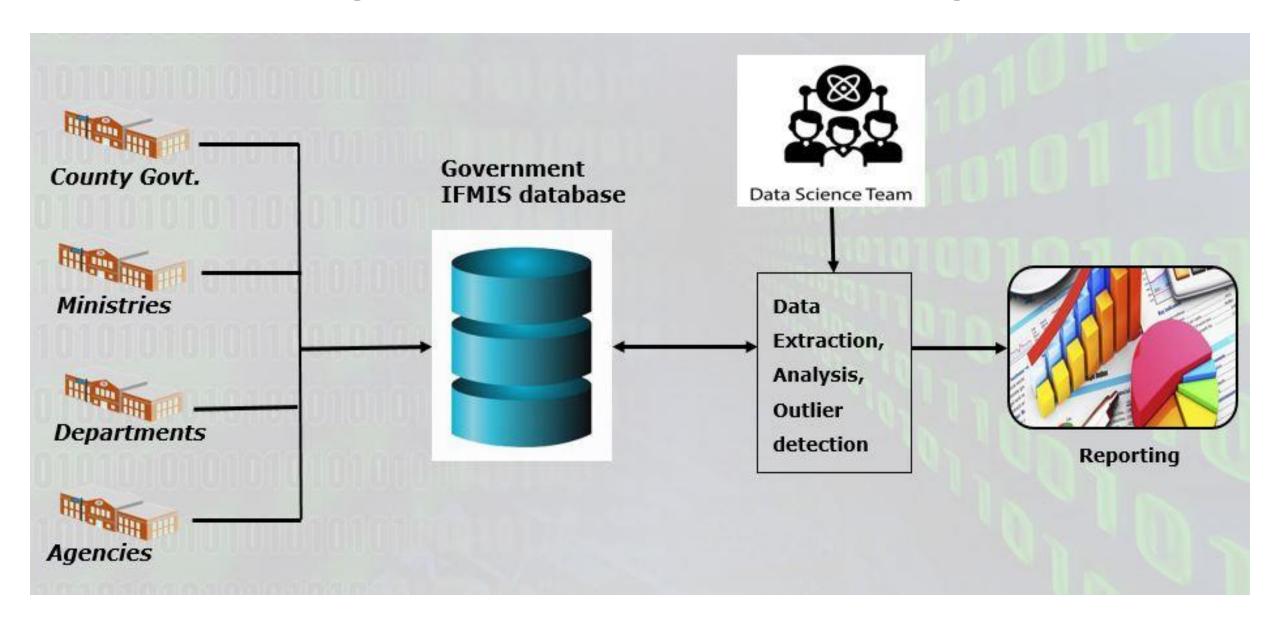
the audit teams during the planning stage

Verification of outliers and exceptions

Extraction,

- Substantive testing of the data analysis results
- Summary report to the Auditor-General





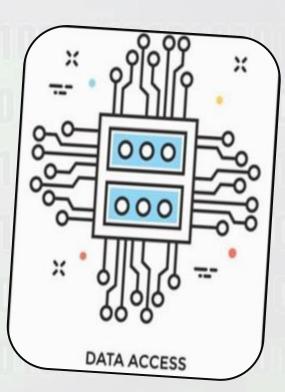


Benefits of data analytics

- Higher level of assurance all transactions are tested thus obtaining assurance on the entire population
- Improved audit quality high quality evidence is obtained
- Insights gained trends and correlations provides more insights on the financial data
- Enhanced efficiency in terms of time taken to conduct data analytics and reporting







Access to data outside IFMIS

- Entities have
 different IT platforms
 and data formats
- Need to have an *ETL platform* to access
 these data



Use of Science in Auditing

- Deploy machine
 learning techniques
 to move from
 descriptive to
 predictive
 analytics
- Expected valuable insights:
 - √ clustering
 - √ Fraud detection



Conclusion

"The goal is to turn data into information, and information into insight."

Carly Fiorina, ex CEO of Hewlett-Packard