

Consolidated Health Informatics of South Africa Platform User's Guide

v.1, AUGUST 2022



Contents

1. Purpose.....	1
2. Overview of the CHISA Platform	2
Getting Started on the CHISA Platform	2
3. Log-in to the CHISA Platform	3
4. Navigating the CHISA Platform	5
5. Navigation to the CHISA Platform dashboard reports.....	6
6. Navigation of the CHISA Platform reports.....	7
7. Filtering CHISA Platform report parameters.....	9
8. Downloading data and images	12
9. CHISA Web Application User Personas.....	13
a) The Analyst.....	13
b) The Analyst/Data Engineer.....	13
c) Administrator/IT Support.....	13
d) Executive Report User.....	13
e) Facility Report User	13
Abbreviations	14
A-D	14
E-K	14
L-O	14
P-S	14
T-Z.....	15

Version History

Version Number	Date of Update	Changes Made
v.1	August 2022	N/A

1. Purpose

This user's guide contains an overview of the National Department of Health's Consolidated Health Informatics of South Africa (CHISA) platform. The aim of this guide is to provide information on how to navigate the various sections of the platform. This document does not include guidance on the interpretation of dashboard reports. We hope that by reviewing this guide, the user will be well equipped to understand the CHISA platform's overall navigation, functionality, and its users' roles.

2. Overview of the CHISA Platform

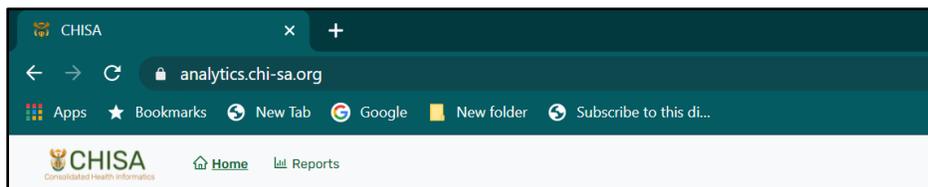
CHISA is an interactive platform providing analytics, visualizations, and reports for a wide range of users across the South African public health sector. CHISA is currently focused on data related to the South Africa TB-HIV response; however, CHISA is expected to be expanded in future releases of the platform.

The visuals and reports run on the Metabase platform, an open-source online business intelligence tool that visualizes data in custom charts or detailed tables. The dashboard reports are grouped by different programme areas.

Getting Started on the CHISA Platform

On the URL bar, enter the URL <https://analytics.chi-sa.org/>, then *Click Enter* or **Go** depending on the web browser you are using, as shown in Figure 1.

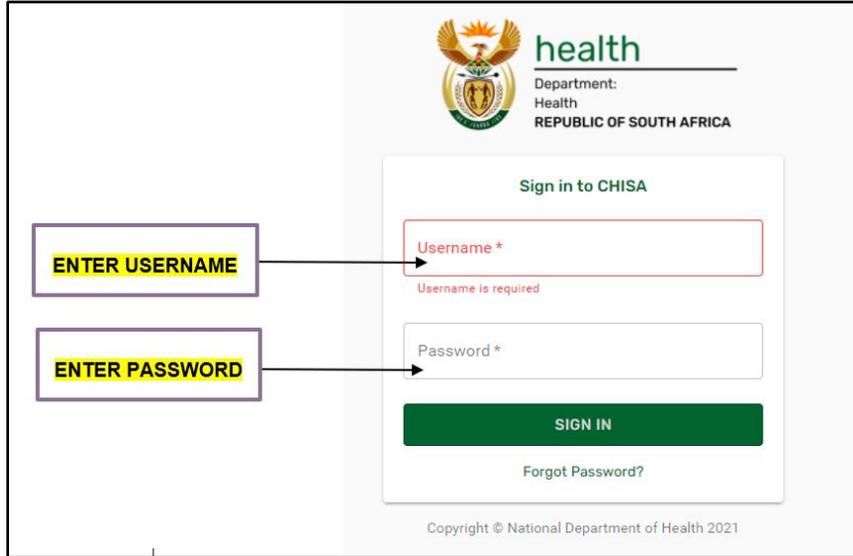
Figure 1: CHISA URL



3. Log-in to the CHISA Platform

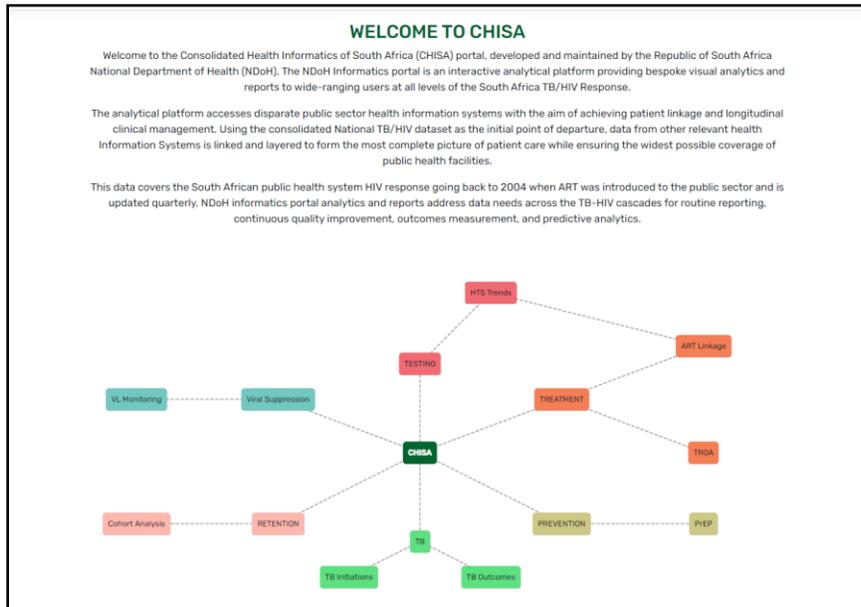
A login screen requesting the user's login credentials will appear. The user will be requested to enter a username and password, as shown in Figure 2.

Figure 2: CHISA login page



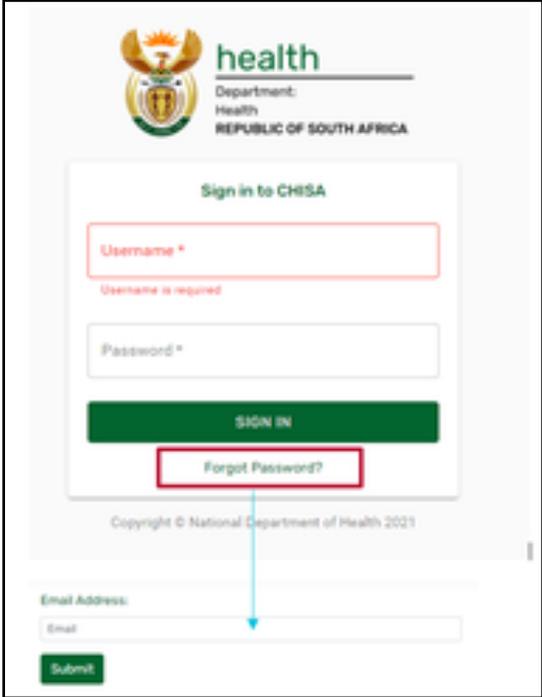
After entering your credentials, *click* on **SIGN IN** and the screen shown below will display.

Figure 3: CHISA homepage



In instances when you have forgotten your credentials, *click* on the **Forgot Password?** link shown in Figure 4. You will be prompted to enter your registered email; instructions will then be sent to you that will enable you to reset your password.

Figure 4: CHISA login page/forgot password

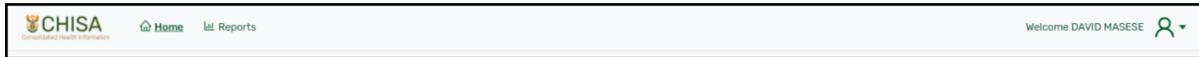


4. Navigating the CHISA Platform

Important links/buttons are provided to the user after logging into the CHISA platform (Figure 5).

- The **Home** button directs the user to the home page of the CHISA platform.
- The **Reports** button directs the user to the various dashboards published on the CHISA platform.

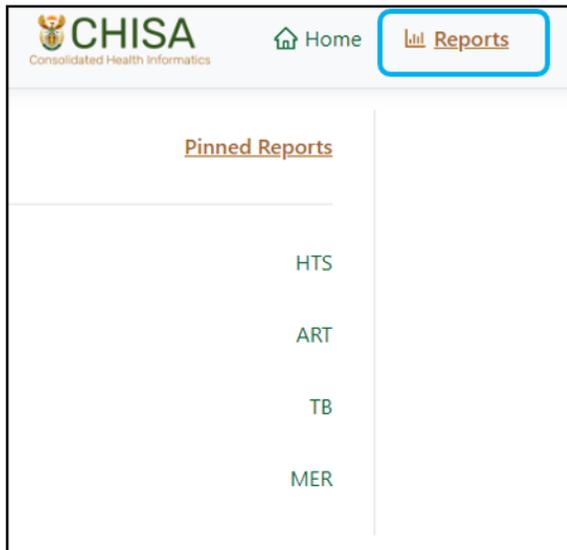
Figure 5: CHISA home page links



5. Navigation to the CHISA Platform dashboard reports

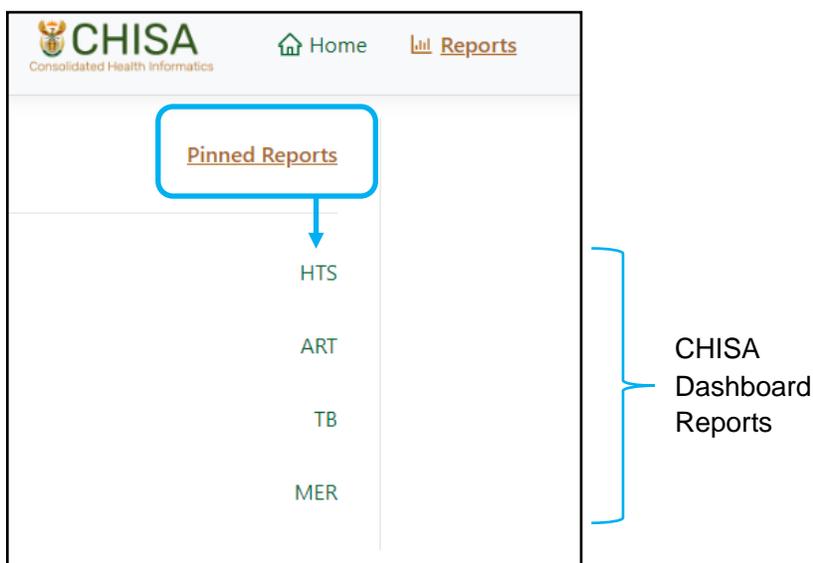
To access the CHISA platform's dashboards, *click* on the **Reports** button/link (Figure 6).

Figure 6: Reports button and available subject areas



This will launch the dashboard reports for various programme areas, as shown in the example below.

Figure 7: Available CHISA dashboard reports

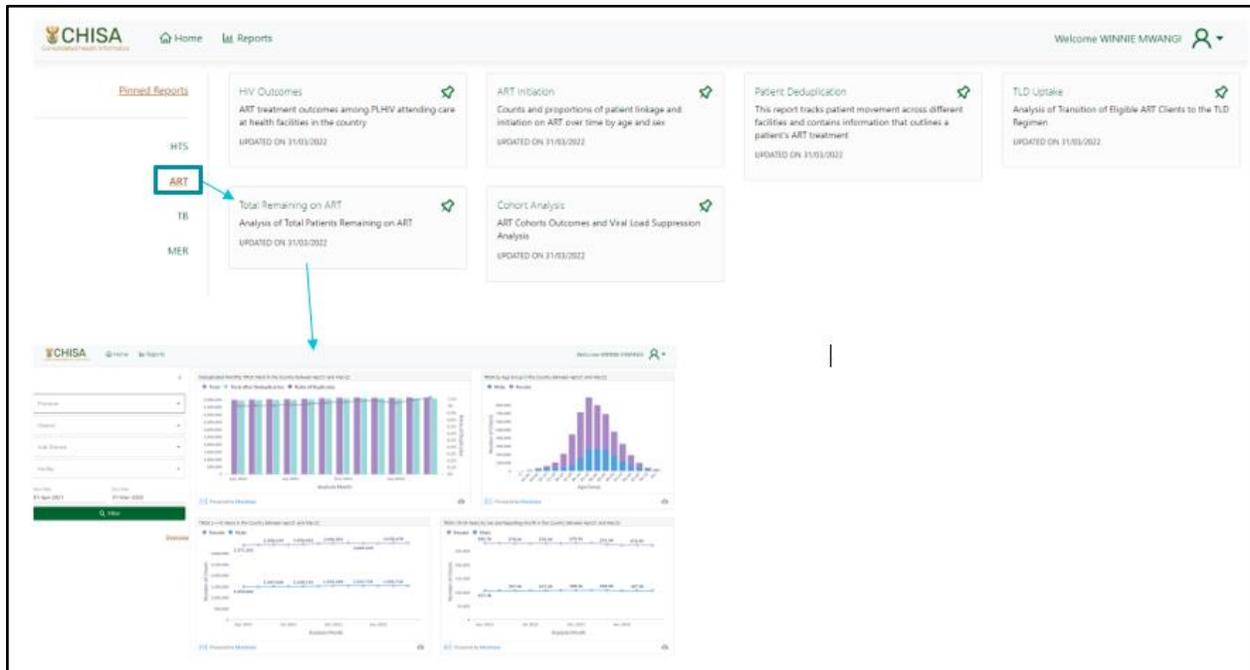


The reports are organized by programme area. Individual reports can be pinned by the user for easy access. In each service area, there are several thematic reports, as presented in section 6.

6. Navigation of the CHISA Platform reports

To view the dashboard reports for a specific programme area, *click* on the name of the programme area, and the underlying visuals will be launched. In the example below, the user has selected the antiretroviral treatment (ART) programme. Within the ART programme, there are several subcategories of visuals (ART initiation, total remaining on ART [TROA], etc.). Once selected, you will be directed to the relevant dashboard page, as shown in Figure 8.

Figure 8: ART reports example home page

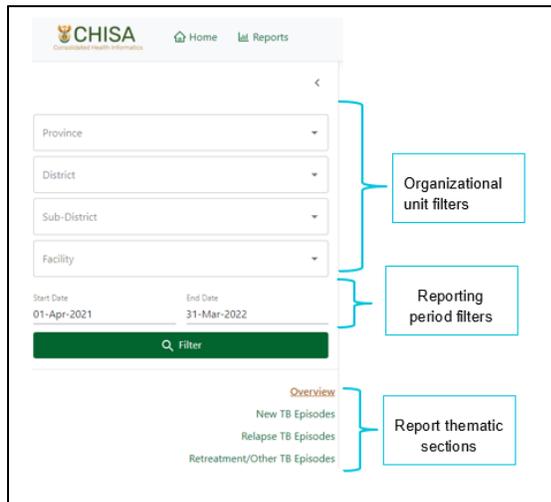


Each report section has a set of filters, organizational units, and date filters. Each dashboard report is unique and may have one or more pages. The pages are thematic. In the example shown below in Figure 9 for **TB (DS_TB Initiations)**, there are four pages; an **Overview**, **New TB Episodes**, **Relapse TB Episodes**, and **Retreatment/Other TB Episodes**.

7. Filtering CHISA Platform report parameters

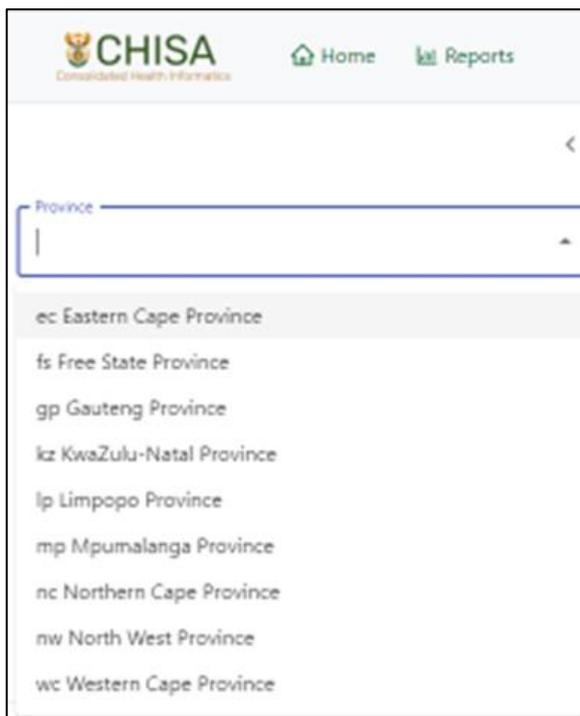
Each report in CHISA features a multilevel filter that is accessible on the left pane of each report page. The highest level of the filter may change depending on the level of approved access. Figure 10 presents the default parameters for the report filters.

Figure 10: Report filters



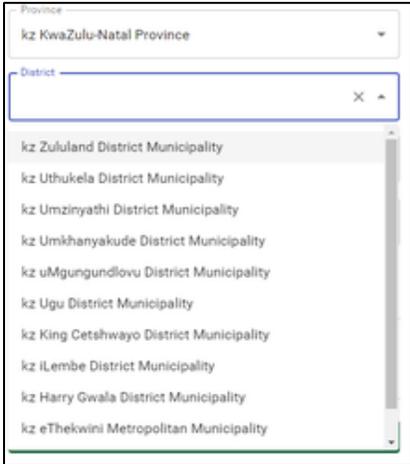
The filter function cascades and displays specific options relevant to the higher-level selection. In Figure 11, the high-level selection being made is at the provincial level.

Figure 11: Provincial-level report filters



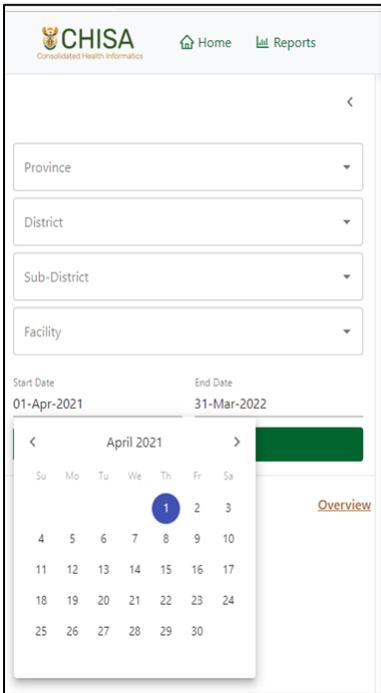
The selection then cascades to additional, related filter options, as shown in Figure 12. In this example, the province selected is KwaZulu-Natal Province and the districts available in the district options are only those specific to KwaZulu-Natal.

Figure 12: District-level report filters



Other report filter parameters include reporting date-selectors, as shown in Figure 13.

Figure 13: Report date filters



Once all parameters are selected, click the **Filter** button to apply the changes (Figure 14).

Figure 14: Applying selected report filters

The screenshot displays the CHISA (Consolidated Health Informatics) interface for applying report filters. The header includes the CHISA logo and navigation links for Home and Reports. The filter section is organized as follows:

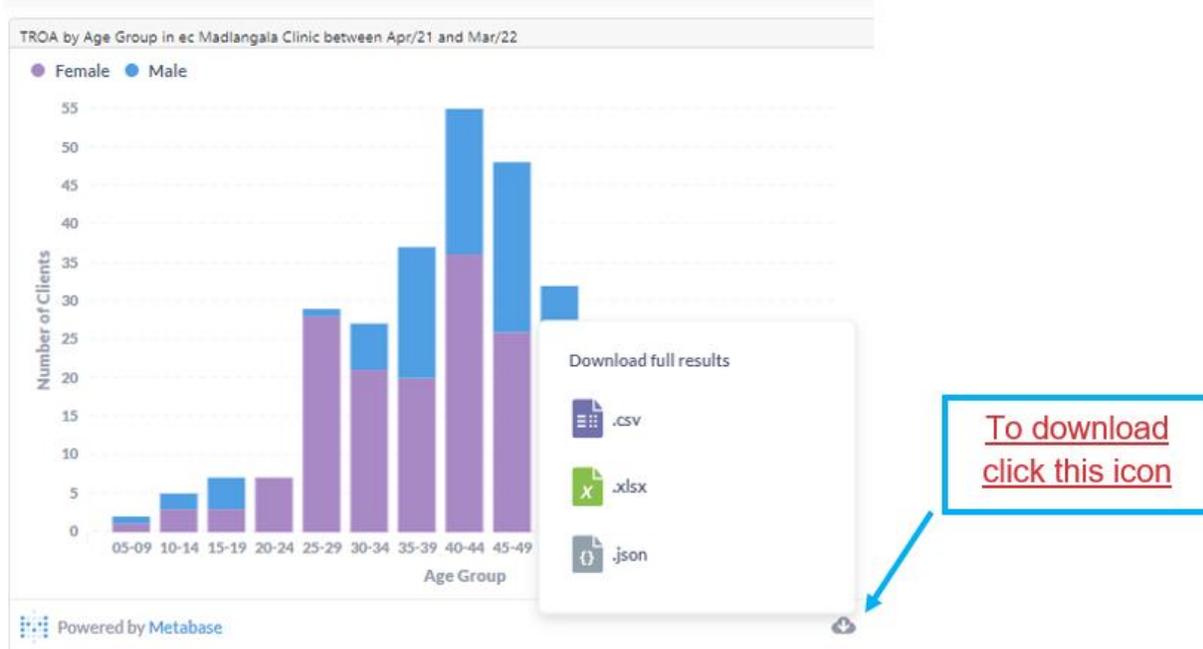
- Province:** A dropdown menu with "kz KwaZulu-Natal Province" selected and a close button (X).
- District:** A dropdown menu with "kz Umkhanyakude District Municipality" selected.
- Sub-District:** A dropdown menu with "kz Jozini Local Municipality" selected.
- Facility:** A dropdown menu with "kz Bethesda Mobile 1" selected.
- Start Date:** A date field containing "01-Apr-2021".
- End Date:** A date field containing "31-Mar-2022".

Below the date fields is a green "Filter" button with a magnifying glass icon. At the bottom right of the filter area, there is a link labeled "Overview".

8. Downloading data and images

The user can download the data to develop visualizations in either **csv**, **xlsx**, or **json** format. A **download button** is located on the bottom righthand corner of each image. Clicking this button will bring up the available options (Figure 15).

Figure 15: Downloading data



The platform does not have a feature to download the visuals for use in a presentation. However, one can snip the image, then copy and paste the image into a presentation.

9. CHISA Web Application User Personas

User personas in the CHISA platform represent the different user types who will interface with the platform. They are based on user interactions, roles, and approved levels of access in CHISA, as described below.

a) The Analyst

This is the superuser who develops the standard analytics (charts and dashboards) for all users of the CHISA platform. Users with this level of access are also responsible for documentation and version control of the dashboard output.

b) The Analyst/Data Engineer

This user provides data analysis support via the provision of additional data marts or extracts beyond the approved standard analytics already available on the CHISA platform.

c) Administrator/IT Support

This user supports the entire department by maintaining the infrastructure and ensuring that the CHISA platform is aligned with relevant information technology (IT) policy.

This user also oversees the provision of user access to the system, helpdesk support, and plays a key role in data governance, privacy, and security.

d) Executive Report User

This is a high-level user, often a decision maker, who requires analytics, data analyses, and reports that focus on programmatic and strategic directions. Examples of these users include a Director of Programmes, a Provincial/District/Sub-District Manager, etc.

e) Facility Report User

This is the user at the lowest level of the health sector who uses data related to the clinical management of patients and the day-to-day management of the facility.

For assistance please contact:

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Abbreviations

Clinical terms used in CHISA analytics are defined by current South African National Department of Health guidelines. They include antiretroviral treatment and care guidance, and updates to treatment regimens. The latest iterations of such guidelines are available through the National Department of Health Knowledge Hub (www.knowledgehub.org.za).

A-D

Name	Definition
ART	antiretroviral treatment
ART Cohort	a group of clients started on ART in the same time period
CHISA	Consolidated Health Informatics of South Africa
DS-TB	drug-sensitive tuberculosis

E-K

Name	Definition
EPTB	extrapulmonary tuberculosis
HIV	human immunodeficiency virus
HTS	HIV testing services

L-O

Name	Definition
Linkage to ART	proportion of HIV-positive clients linked to ART
LTFU	lost to follow-up
NDoH	National Department of Health

P-S

Name	Definition
PTB	pulmonary tuberculosis
RIC	remaining in care
RIP	rest in peace (deaths)

T-Z

Name	Definition
TB	tuberculosis
TLD	tenofovir disoproxil fumarate-lamivudine-dolutegravir
TROA	total remaining on ART

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