

DATA VISUALIZER

USER MANUAL

DATA
FOR ALL

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Executive Summary

The DFA Visualizer is a web application which allows to query a data warehouse, view edit visualizations, download and share datasets. It is a powerful data dissemination tool which provides users with access to an entire data warehouse. User can also have their own online gallery where they can save their favorite visualizations for later use. It comes with a sophisticated suite of editing features to edit visualizations.

Objective of this Manual

This manual serves as a reference guide for the utilization of the platform. The manual will guide the user to use and understand the following pages:

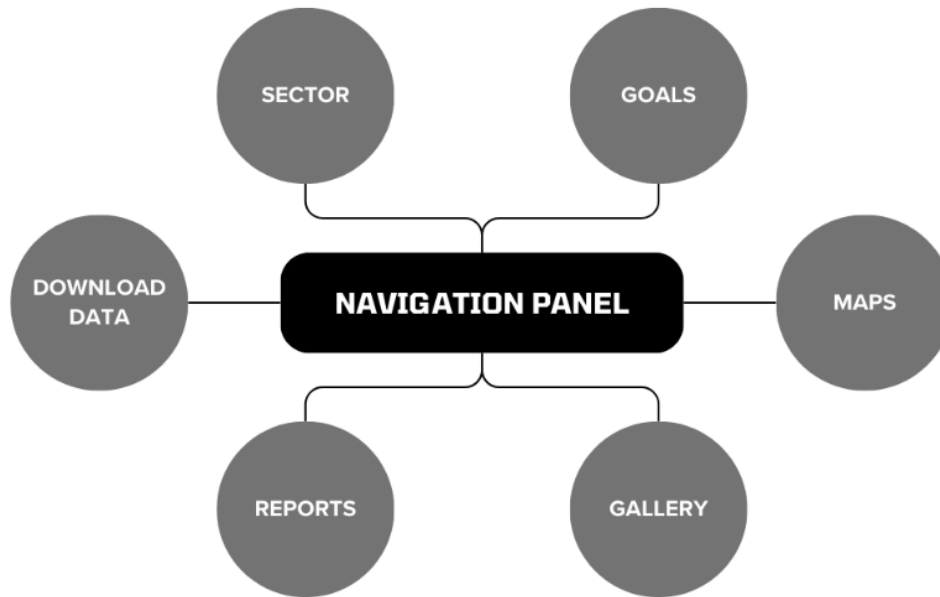
- Sector and Goals
- Maps
- Gallery
- Report
- Download Data
- Login

Navigation

Below are the key pages of this application:

- **Sector:** This page provides data categorized into different sectors, such as Education and Economy.
- **Goal:** Here, data is presented based on the target indicators listed under the 17 Sustainable Development Goals.
- **Map:** This section displays data from various sector classifications on thematic heat maps. The data is presented on maps of different area levels for the country.
- **Gallery:** Users can view their saved charts, maps, and graphs in this section.
- **Reports:** This feature allows users to view data from the data warehouse in a tabular format, along with the source of the data.
- **Download Data:** Users can download the selected dataset queried from the data warehouse on this page.
- **Login:** Allows users to log in with their credentials to manage, edit, and add visualizations to their personalized gallery.

DFA VISUALISER



How to access the DFA Visualizer?

Link

DFA Visualizer Demo

<https://demo.visualizer.dataforall.org/Sectors#/>

This application is accessible to the public. However, to save the visualizations in a private gallery, users need to create an account.

Login

To log in, ensure that you are connected to the internet and follow these steps:

1. Go to the Login Page using the menu bar at the top of the page.
2. Enter your username and password in the pop-up box.
3. Click the Login button, and upon successful login, you will reach the application's landing page.

In case you have forgotten your password, you can create a new password by following these steps:

1. Go to the Login Page using the menu bar at the top of the page.
2. Click on "Forgot Password."
3. To receive a link to reset the password, enter your email address in the pop-up box that appears and press "Submit."

Forgot Password?

* Email

1. Click on the link you would have received in your registered email to reset the password.
2. Enter the new password, and confirm your new password.

Successful Password Change Confirmation

Sector and Goals

These two sections enable users to visualize data through charts and graphs based on different sectors and Sustainable Development Goals (SDGs).

Selecting a Sector/Area, Indicator Classification, Indicator, Dimensions, or Time Period:

1. To choose a specific sector/area, indicator classification, or subgroup, users should navigate to the menu at the top of the page.
2. Click on "Select Sector/Area," "Select Indicator Classification," or "Select Subgroup" to choose a particular Indicator, Dimensions, or Time Period respectively.

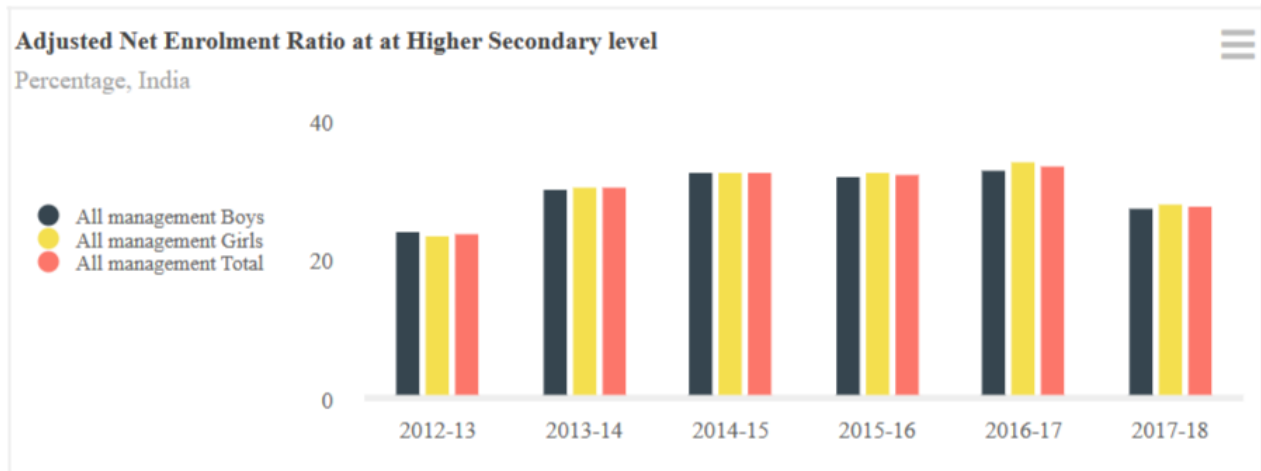
Select Area: **India** | Indicator Classification: **School** | Indicator: **Classrooms, Number** | Dimensions: **All management Rural** | Time Period: **2017-18**

3. Once you click on one of the options mentioned above, a drop-down menu will appear from which you can select the appropriate sector, indicator, or subgroup.

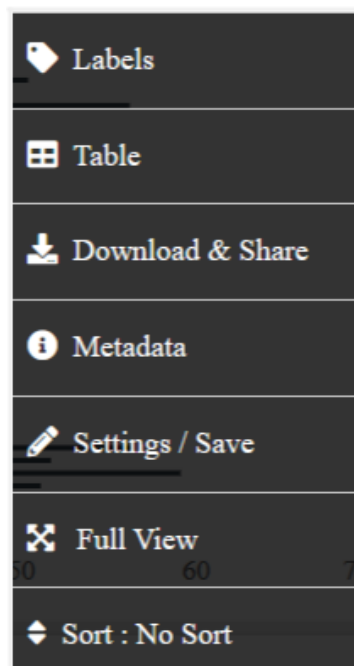
The screenshot shows four dropdown menus:

- Indicator Classification:** School (selected), Outcome, School, Teachers, Enrolment.
- Indicator:** Classrooms, Number (selected), Proportion of government schools to total schools, Percentage, Ratio of upper primary schools/section to secondary schools/section, Ratio, Schools conducted medical check-up of students previous year, Number, Schools conducted medical check-up of students previous year, Percentage, Schools constituted School Development Management Committee (SDMC), Number, Schools constituted School Development Management Committee (SDMC), Percentage, Schools constituted SDMC and have more than nine meetings during last academic year, Number, Schools constituted SDMC and have more than nine meetings during last academic year.
- Dimensions:** All management Rural (selected), All management Rural, All management Total, All management Urban, Government Aided Rural, Government Aided Total, Government Aided Urban, Government Rural, Government Total, Government Urban.
- Time Period:** 2017-18 (selected), 2017-18, 2016-17, 2015-16, 2014-15, 2013-14.

Features



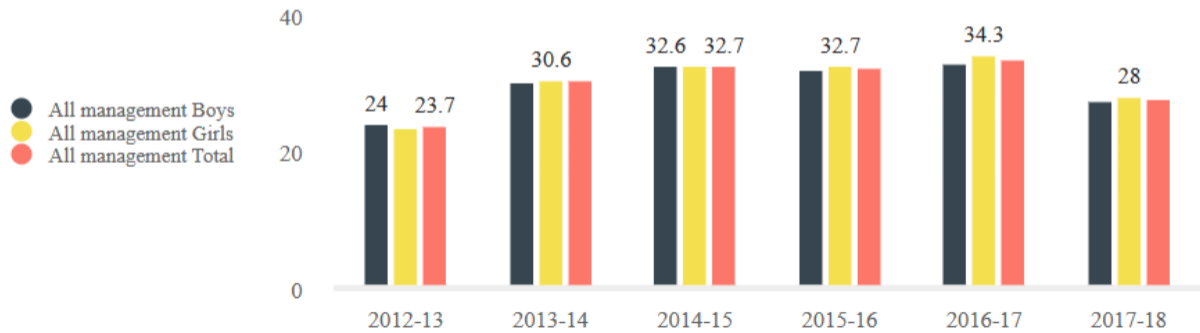
1. Users can access different features associated with each graph and chart through the menu icon (with three lines) located in the top right corner of each graph and chart.
2. A drop-down menu will appear, offering the following options:



3. Click on "Labels," and users will be able to see the data value of each bar or points represented in the graph or chart.

Adjusted Net Enrolment Ratio at at Higher Secondary level

Percentage, India



- Users can view the graph or chart in a tabular format by selecting "Table" from the drop-down menu.

	All management Boys	All management Girls	All management Total
2012-13	24	23.5	23.7
2013-14	30.3	30.6	30.4
2014-15	32.6	32.8	32.7
2015-16	32	32.7	32.3
2016-17	33	34.3	33.6

- Users can print, download, or share the charts or graphs in various file types using the "Download and Share" option.
- They can edit the charts or graphs according to their requirements and save them in the "Gallery" section with the "Setting/Save" feature.
- Sharing the chart or graph with others via social media, email, or by directly sharing a link is possible through the "Share" function.

Download

SVG JPEG PNG CSV Print

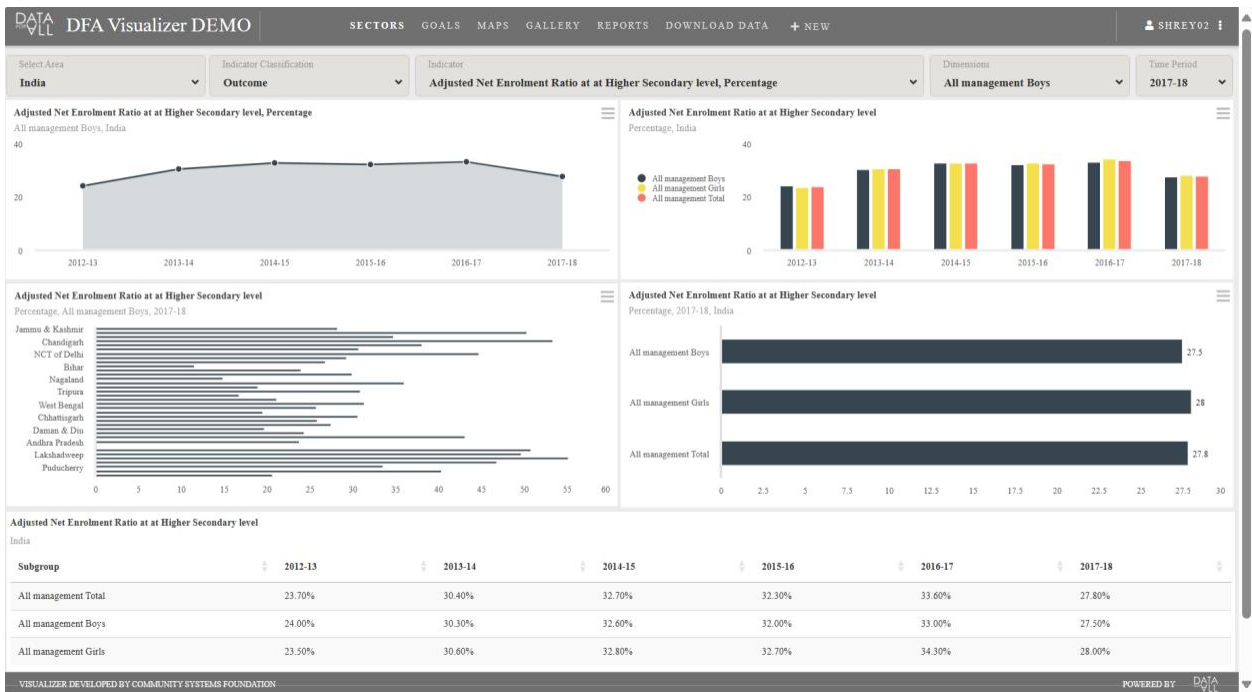
Social Sharing

Twitter Facebook Email

Copy Link

<https://demo.visualizer.dataforall.org/files/socialMediaSharedImages/240514105119.jpg>

- When you choose "Full Screen," the chart or graph expands to occupy the entire screen, covering everything else in the background.

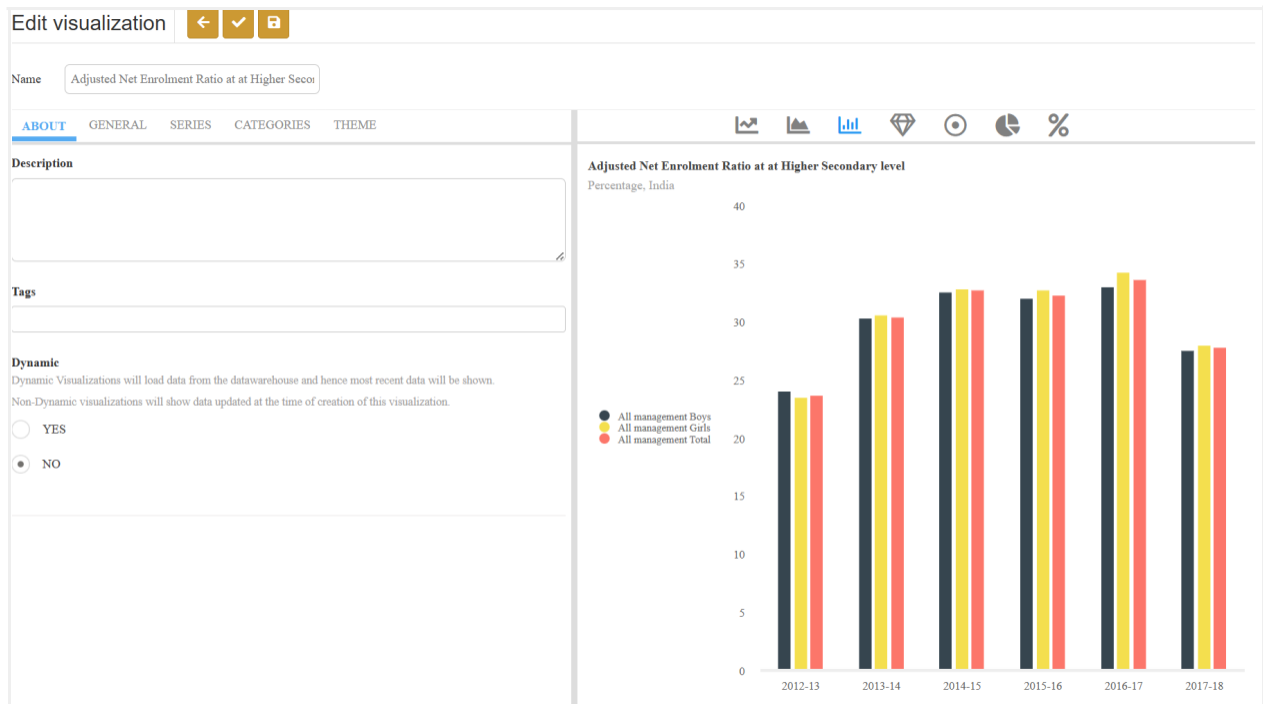


- When users click on "Sort," they'll encounter another drop-down menu. This menu enables them to arrange the information within the chart or graph in either ascending or descending order.



Customization of graph or chart

1. To tailor each graph and chart to suit their preferences, users can simply click on the menu icon (typically represented by three lines) located in the top right corner of each graph or chart.
2. From there, selecting "Setting/Save" opens up customization options. Users can then utilize five criteria to refine the graph or chart, making it more pertinent to their requirements



3. About: users can enhance the chart or graph by providing additional explanations in the description section. They can categorize the chart or graph more effectively by adding tags in the "Gallery" section. Additionally, users can opt to make the chart or graph dynamic, which, when selected, updates the chart or graph with the most recent data.

Edit visualization

←
✓
🔒

Name

ABOUT
GENERAL
SERIES
CATEGORIES
THEME

Description

Tags

Dynamic

Dynamic Visualizations will load data from the datawarehouse and hence most recent data will be shown.
Non-Dynamic visualizations will show data updated at the time of creation of this visualization.

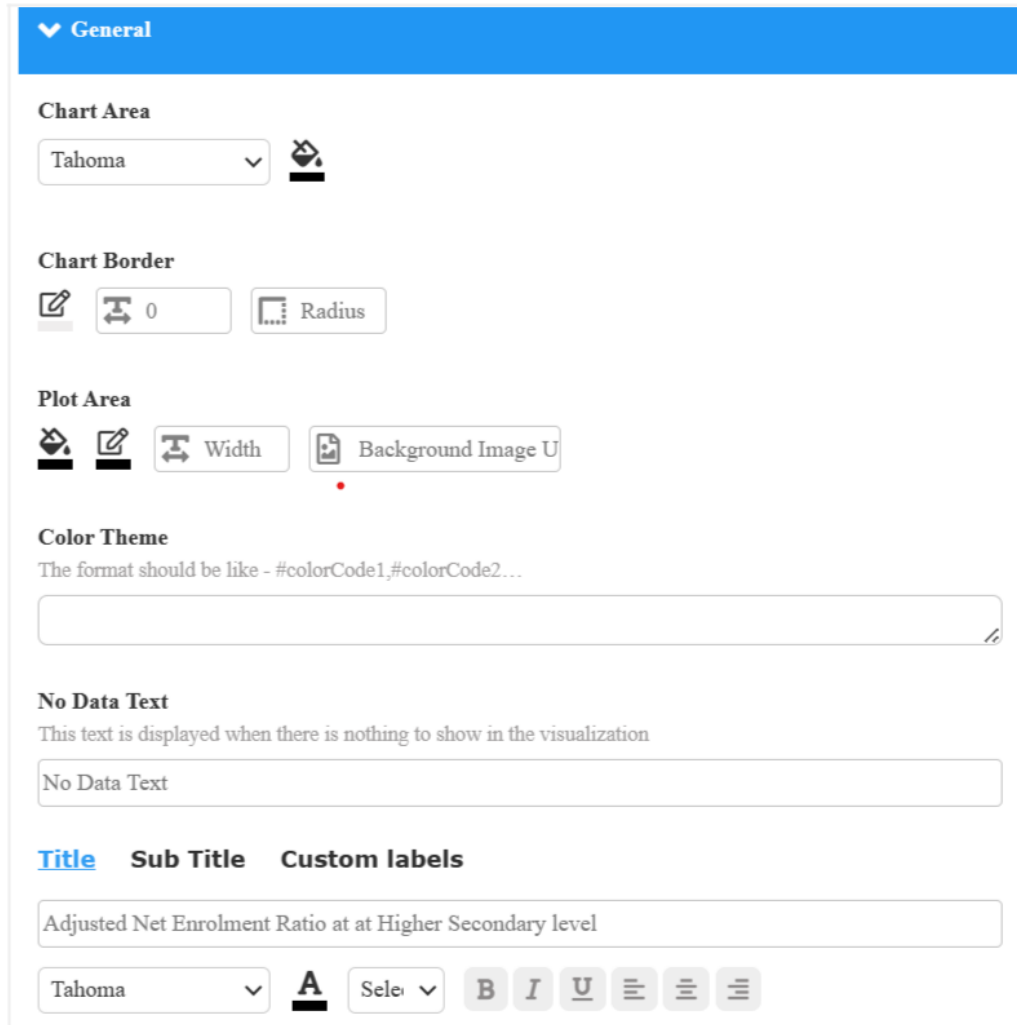
YES
 NO

4. General: Within this section, users can edit the general formatting of the chart or graph.

ABOUT
GENERAL
SERIES
CATEGORIES
THEME

- > General
- > Highlight Selected Area
- > Axis Horizontal (X-Axis)
- > Axis Vertical (Y-Axis)
- > Axis Vertical (Secondary-Axis)
- > Data Value Labels
- > Legend
- > Tooltip
- > Filters

a. Under "General," users gain access to a range of editing and customization options. They can tailor the font, color, size, and alignment of the title, subtitle, and custom labels within the graph or chart. Moreover, they can imbue the chart with a background color or image, and refine the chart's border by selecting from various colors, adjusting border width, and setting border-radius.



- b. Selecting "Highlight Selected Area" empowers users to emphasize the area where data is populated within the chart or graph. Additionally, they can append a label to this highlighted area. This feature is particularly useful for maps and rank charts.
- c. Users can modify the presentation format of information on the X-Axis by clicking on "Axis_Horizontal_X." This allows adjustments to the title, font, font size, color, and labels associated with the X-Axis.

▼ Axis Horizontal (X-Axis)

Title

Select font family ▼ **A** Sele ▼ **B** *I* U ≡ ≡ ≡

Labels

Select font family ▼ **A** Sele ▼ **B** *I* U ↑ ↻

Enable Text Wrap

Axis Line

Grid Lines

SHORT_ ▼

Ticks

- d. Clicking on "Axis_Vertical_Y" enables users to alter the format in which information is displayed on the Y-Axis. This includes modifying the title, font, font size, color, and labels associated with the Y-Axis.

▼ Axis Vertical (Y-Axis)

Title

Select font family ▼ **A** Sele ▼ **B** *I* U ≡ ≡ ≡

Labels

Select font family ▼ **A** Sele ▼ **B** *I* U ↑ ↻

Label Format

Percentage ▼

{value} ▼ prefix suffix

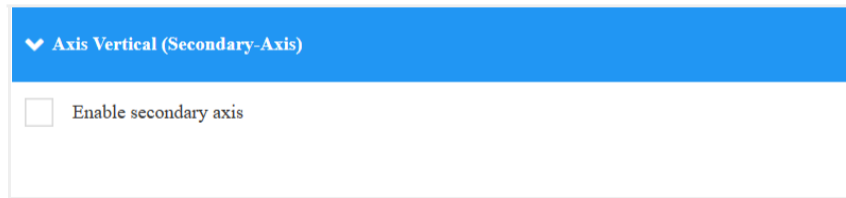
Axis Line

Grid Lines

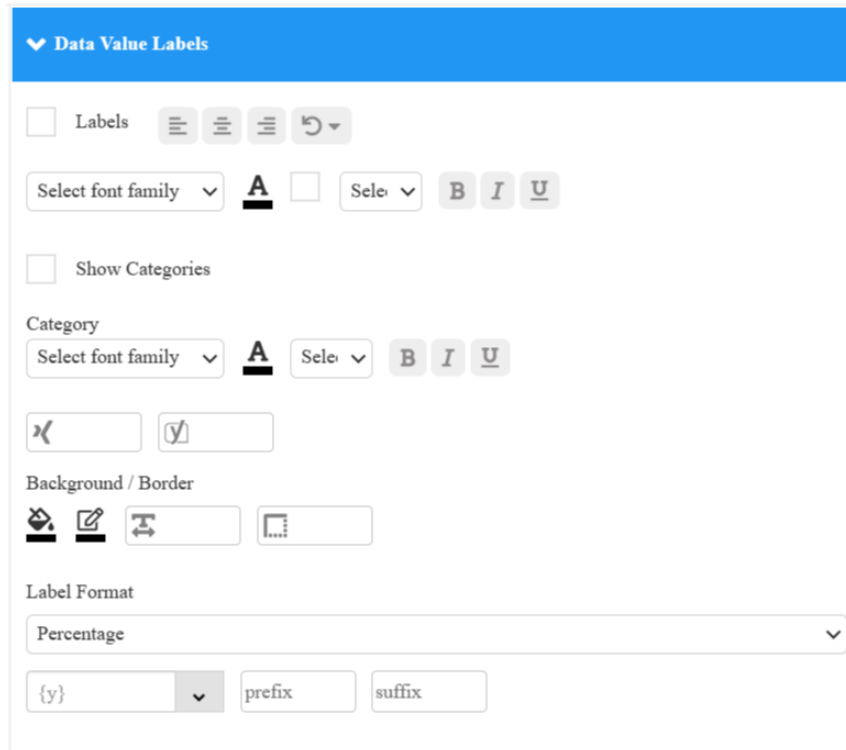
SHORT_ ▼

Ticks

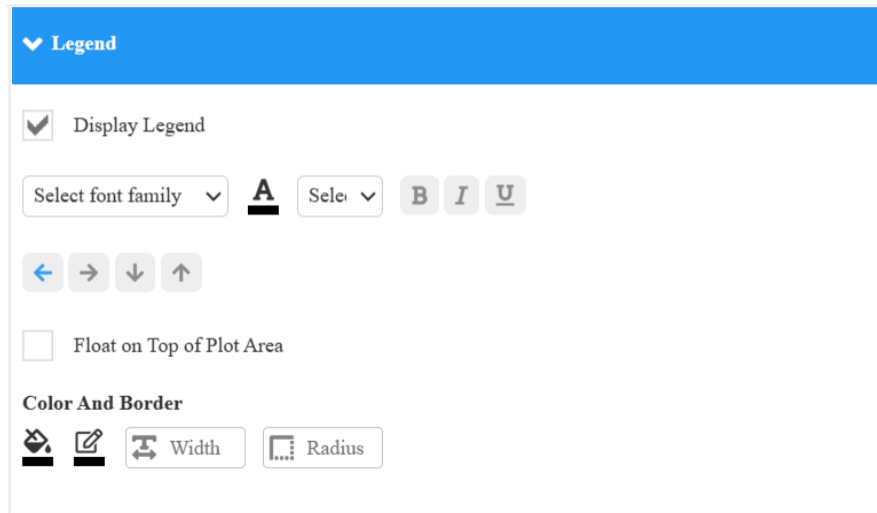
- e. Enabling "Axis_Vertical_Secondary" allows users to incorporate a secondary vertical axis on the right side of the graph. Once activated, users can further format this secondary axis according to their preferences.



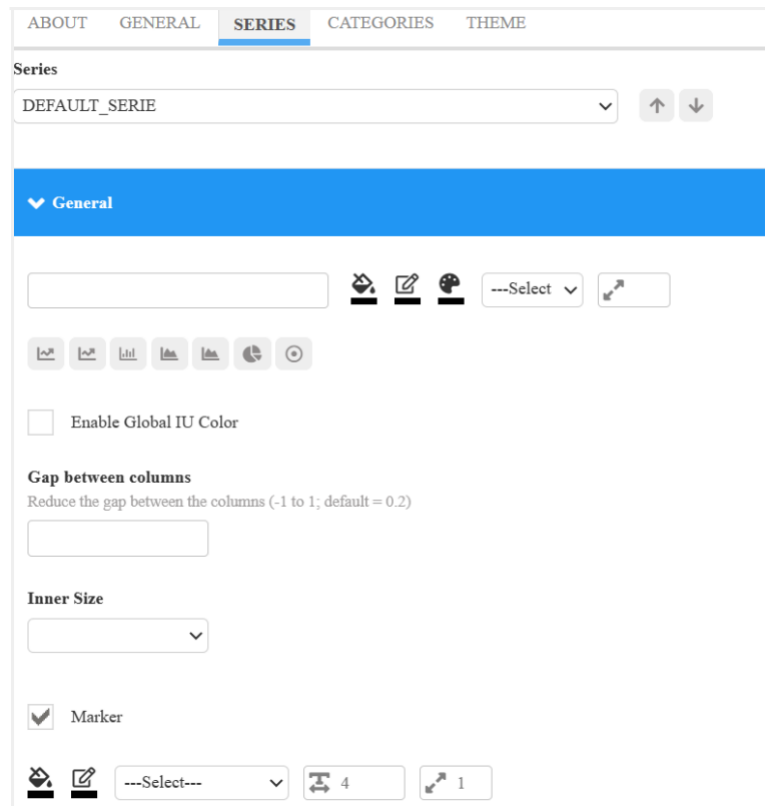
- f. Users can adjust the presentation of data on the chart or graph by selecting "Data Value Labels." This feature allows users to customize how the data values are displayed.



- g. "Legend" offers users the capability to edit the graph's legend. This functionality enables customization and modification of the legend's appearance and content, aligning it more closely with users' preferences and requirements.



5. Series: In this section, users can format the presentation of data. Upon selecting the data category, users can display the data in various formats such as line, spline, column, area, area spline, pie, or scatter chart. Additionally, users can customize the formatting of the chart or graph, including the font, font size, and the gap between columns. Moreover, the section offers the capability to add data labels to enhance the clarity of the displayed information.



6. Categories: In the "Categories" section, users can categorize and organize the data displayed in the chart or graph. This section allows users to define and assign specific categories i.e, Name, color or Index to the data points, facilitating clearer visualization and analysis

Categories		
Name	Color	Index

7. Theme: This section allows users to associate Information such as IUS in reference to a theme that is implemented in the project by enabling it by selecting the options available in the menu shown below.

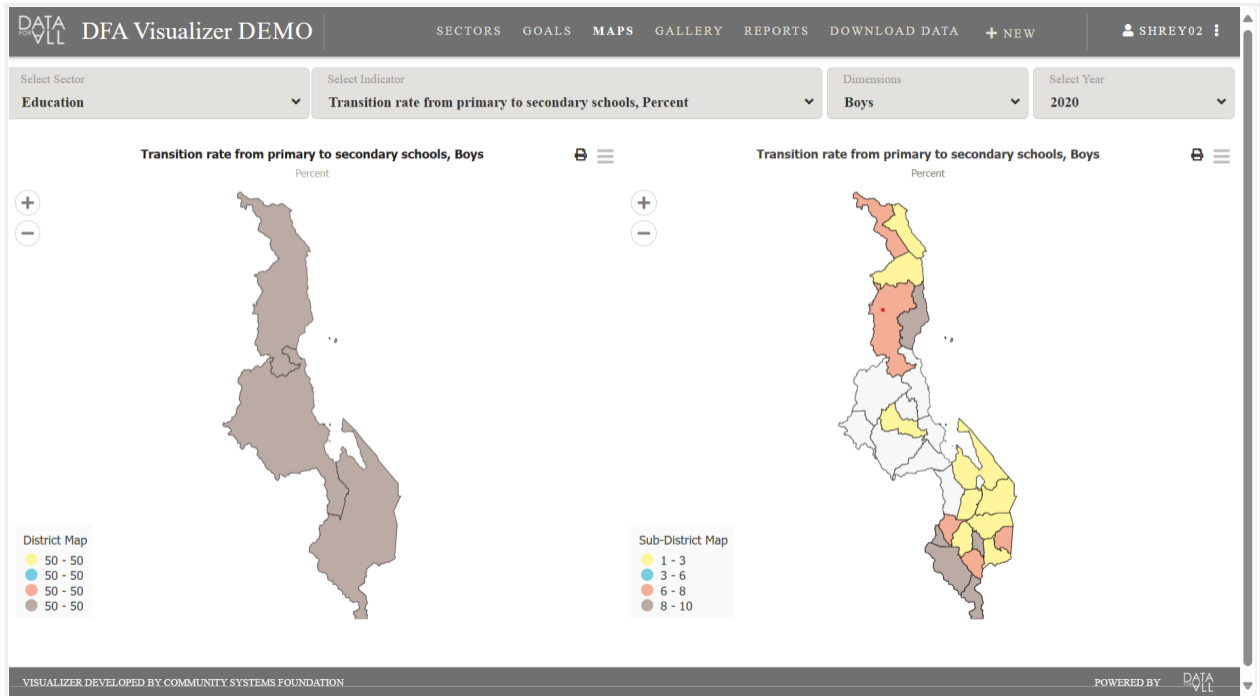
ABOUT	GENERAL	SERIES	CATEGORIES	THEME
<input type="radio"/>	Enable Theme			
<input type="radio"/>	Global Subgroup Color			
<input type="radio"/>	Enable Global IU Color			

After customizing the chart or graph to meet their requirements, users can save it in the "Gallery" section by selecting the third option on the top menu, represented by a floppy disk icon. If adjustments are necessary on the dashboard, users can click on the second option, symbolized by a tick mark icon

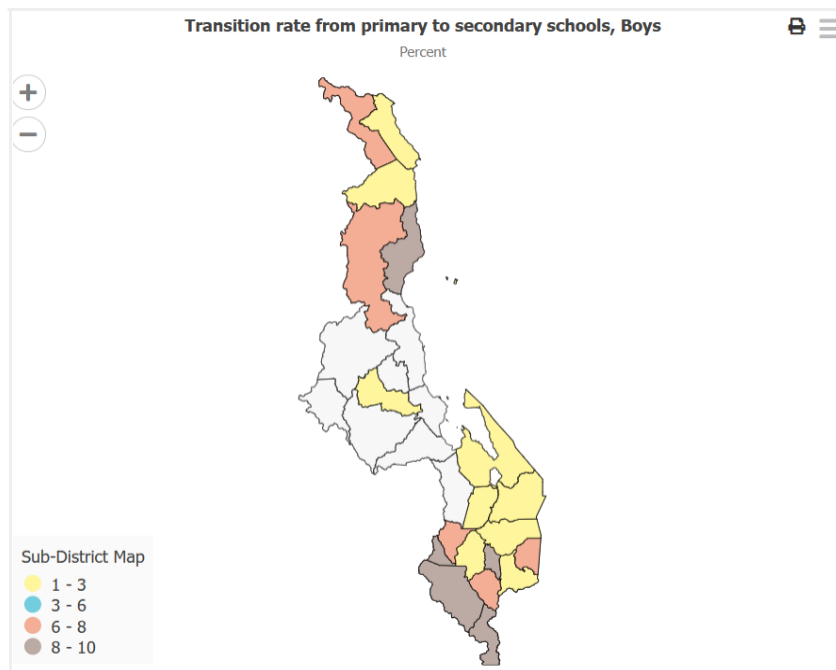
Edit visualization	←	✓	📁
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Maps

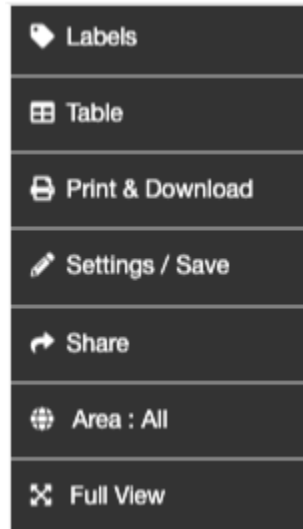
This section allows users to view data on a particular sector or SDG goals presented on thematic heat maps.



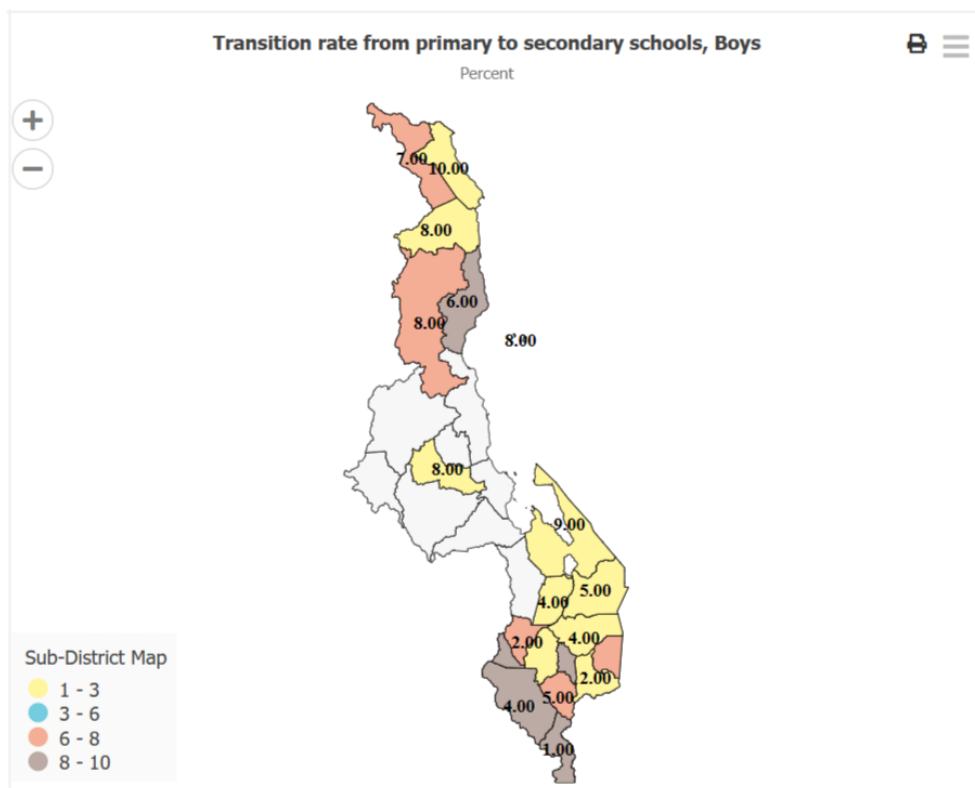
Features



1. Users can access various features associated with each map by selecting the three lines located in the top right corner of each graph and chart.
2. This action prompts a drop-down menu to appear, offering the following options



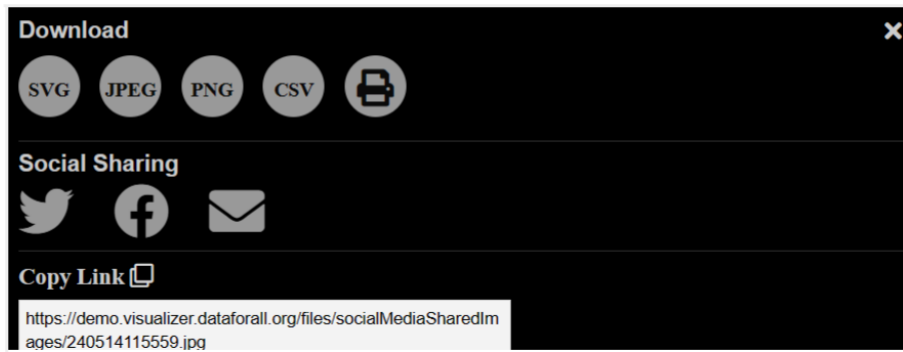
3. Selecting "Labels" allows users to view the value associated with each region on the map. This feature enhances the clarity of the displayed information by providing specific data points for each geographical area.



4. Selecting "Table" presents users with the data from the map in a tabular format, enhancing accessibility and facilitating detailed examination of the information.

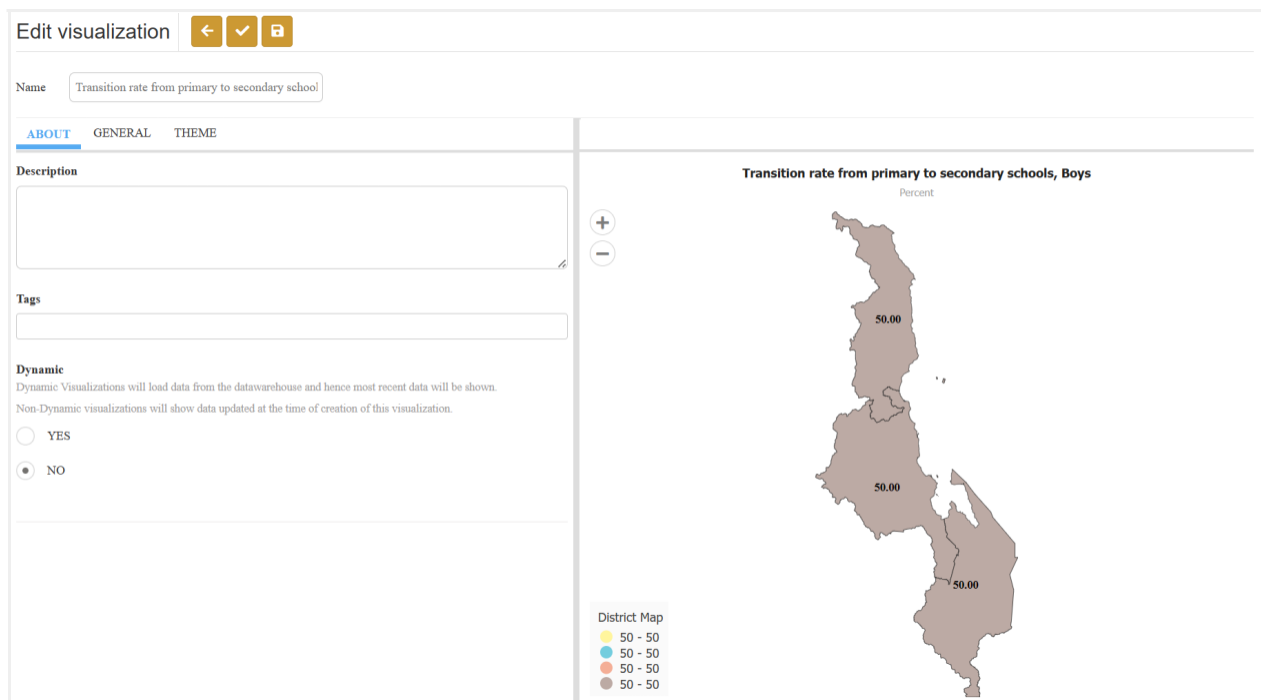
Transition rate from primary to secondary schools, Percent (Boys) ⌵		✕
Balaka	4	
Balaka	1	
Blantyre	9	
Blantyre	2	
Chikwawa	4	
Chikwawa	2	
Chiradzulu	5	
Chiradzulu	3	
Chitipa	7	
Chitipa	6	
Dedza	8	
Dedza	1	

5. "Print & Download" enables users to print or download the map in various file formats.
6. "Setting/Save" allows users to edit the map according to their needs and save it in the "Gallery" section.
7. "Share" permits users to share the map via social media, email, or by sharing a direct link.
8. "Full Screen" expands the map to occupy the entire screen, obscuring background content.
9. Selecting "Area" grants users the option to view the region falling under the highest or lowest category, facilitating focused analysis based on specific criteria.



Customization of map

1. To customize each map, users can access the settings by selecting the three lines in the top right corner and then choosing "Setting/Save."
2. Editing options are available based on three criteria, ensuring relevance to the user's needs.



3. About: Users can enhance the informativeness of the map by providing additional explanations through the description section. Adding tags helps categorize the map effectively in the "Gallery" section. Additionally, users can opt to make the map dynamic, ensuring it updates with the most recent data if selected.

ABOUT GENERAL THEME

Description

Tags

Dynamic
Dynamic Visualizations will load data from the datawarehouse and hence most recent data will be shown.
Non-Dynamic visualizations will show data updated at the time of creation of this visualization.

YES

NO

4. General: In this section, users can modify the general formatting of the map according to their preferences.

ABOUT **GENERAL** THEME

▼ General

Title Sub Title Custom labels

Transition rate from primary to secondary schools, Boys

Select font family ▼ **A** 12 ▼ **B** *I* U ☰ ☰ ☰




No Data Text
This text is displayed when there is nothing to show in the visualization

No Data Text

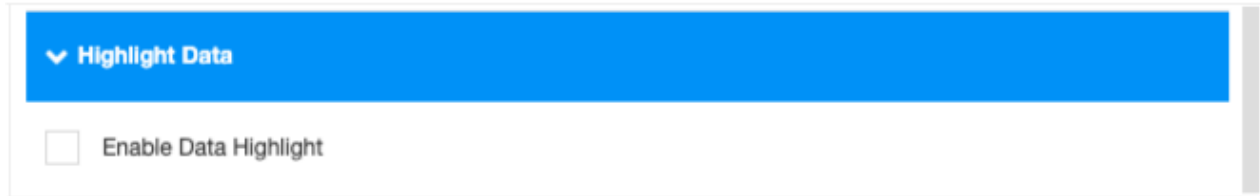
No data map color
A Show no data color in legend

Data range exception
 Enable map break point exception

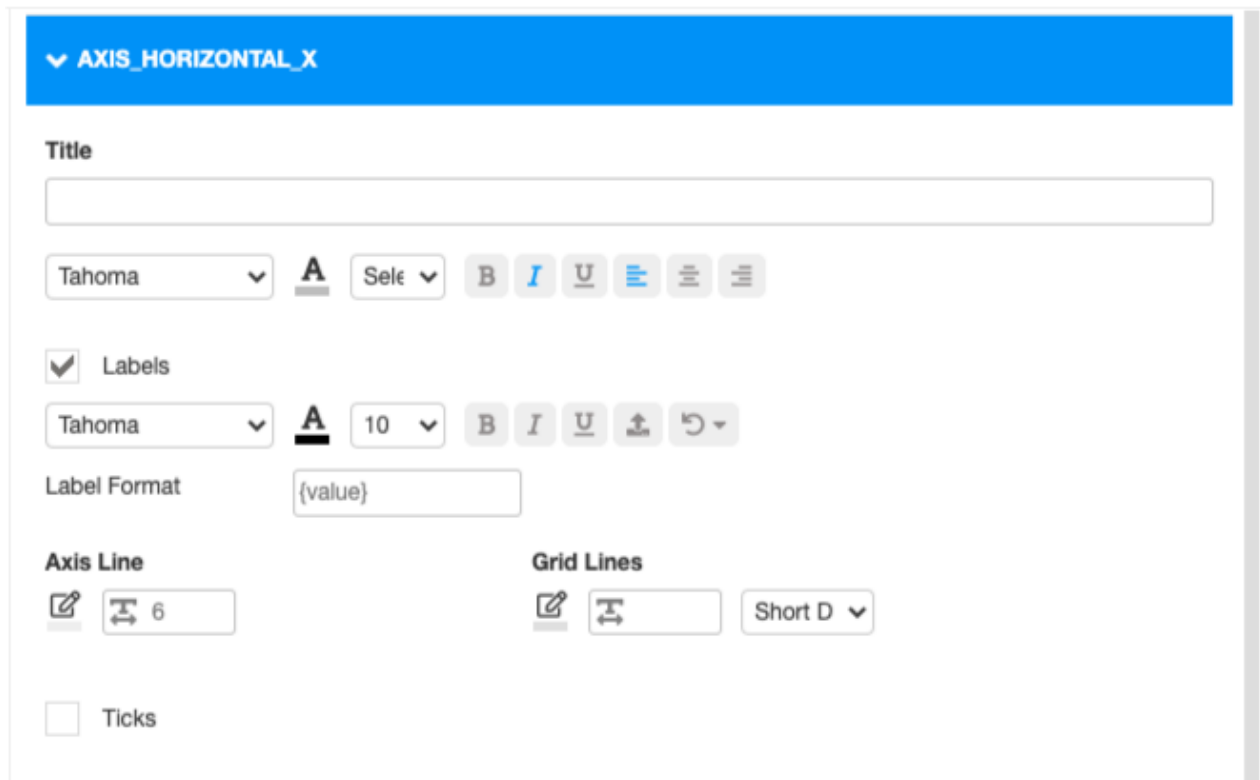
Info data
 Enable info data

Border
  Width  Radius

- a. In "General," users can adjust the font style for information presentation, incorporate a background image if necessary, alter the color theme, and append a subtitle to the map.
- b. Enabling "Highlight Selected Area" facilitates data highlighting.



- c. Through "Axis_Horizontal_X," users can modify the presentation format of information on the X-Axis, including the title, font style, font size, color, and labels.



- d. With "Data Value Labels," users can customize the presentation of data on the chart or graph according to their preferences.

▼ Data Value Labels

Labels

Select font family **A** **B** **I** **U**

Label format

Enable unit based data value formatting

- e. Selecting "Legend" enables users to edit the legend positioned on the left side of the graph, allowing for customization according to their requirements.

▼ Legend

Display Legend

Title

Select font family **A** **B** **I** **U**

Float on Top of Plot Area

Color And Border

5. Theme:

ABOUT
GENERAL
THEME

Indicator

▼
✎
💾

Equal Size
▼
#

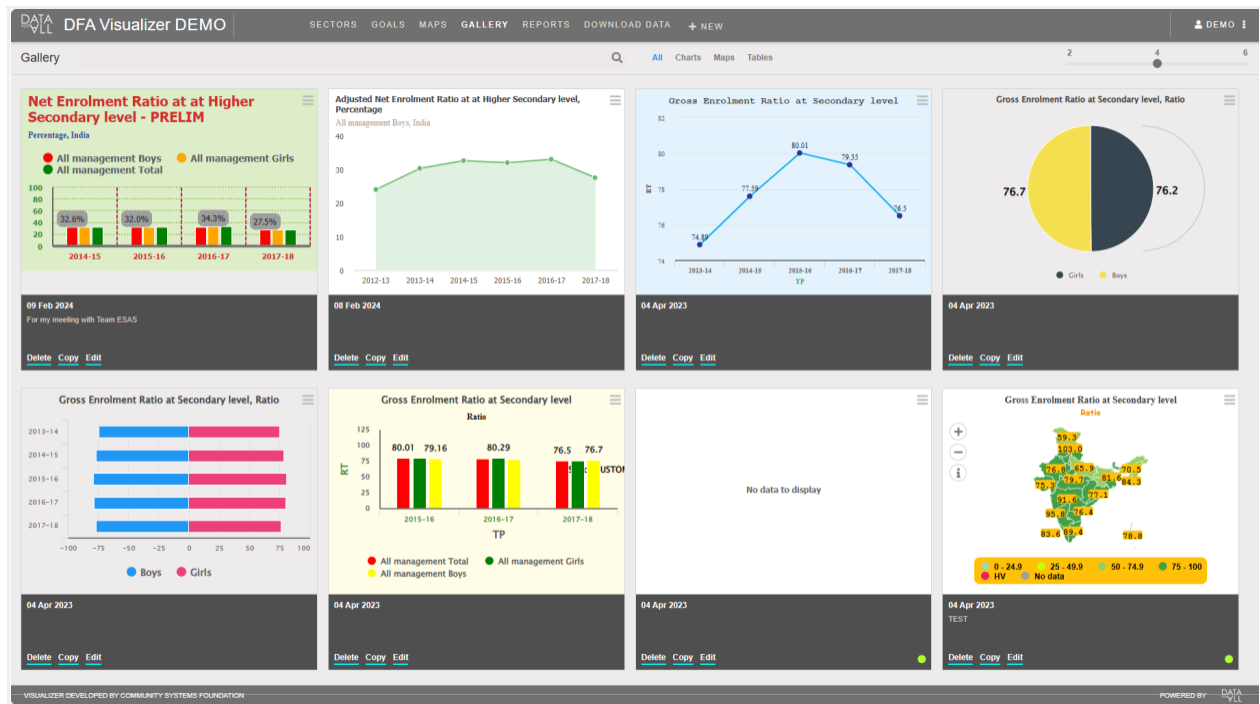
Breaks	Color	Labels
Break 1		<input style="width: 80%; border: 1px solid #ccc;" type="text"/>
Break 2		<input style="width: 80%; border: 1px solid #ccc;" type="text"/>
Break 3		<input style="width: 80%; border: 1px solid #ccc;" type="text"/>
Break 4		<input style="width: 80%; border: 1px solid #ccc;" type="text"/>

After customizing the map to suit their needs, users can save it in the "Gallery" section by selecting the third option on the top menu, represented by a floppy disk icon. To make changes to the dashboard, users can click on the second option, denoted by a tick mark icon.

EDIT_VISUALIZATION

←
✓
💾

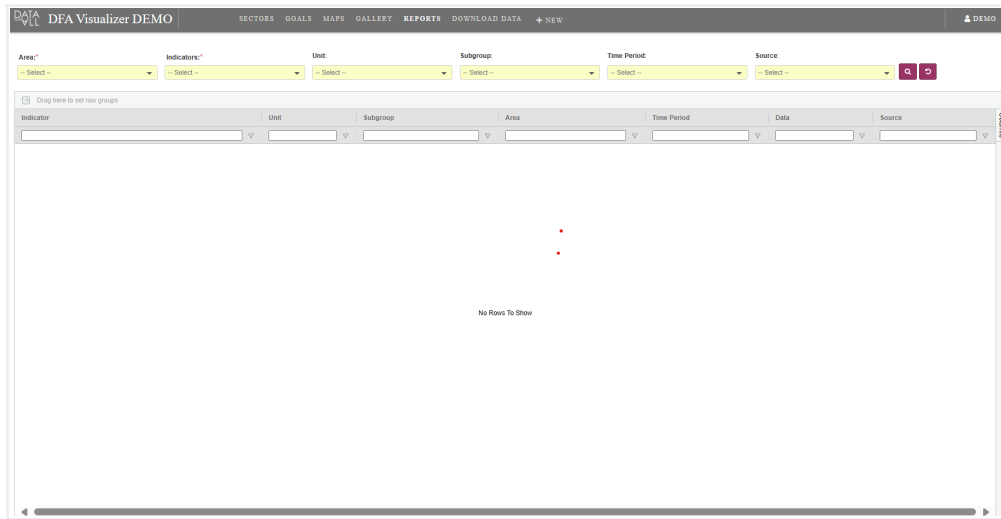
Gallery



Once all visualizations are customized, users can access them in the "Gallery" section. It's essential to note that each "Gallery" page is viewable only by the user and cannot be shared or accessed by others through shared login access

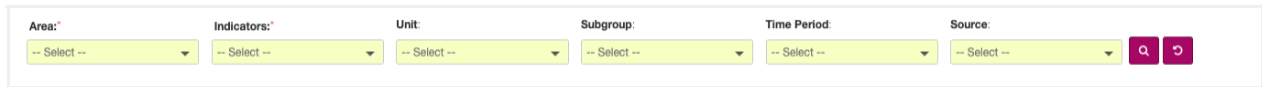
Report

The report section provides users access to all records in the database. Upon opening this page, users can view all data in tabular format.



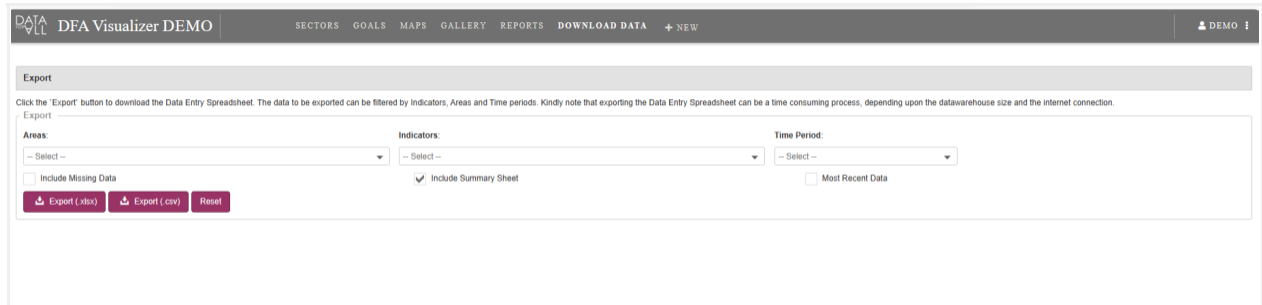
To view the data source:

1. Users need to select the desired area in the report section to filter and view specific data relevant to that area.



Download Data

Through this section, the user is able to export the data that is presented throughout the platform.



To download data:

1. Users initiate the process by selecting their preferred geographical area for data download—choices include country-level, region-level, or district-level. Once selected, users confirm their choice by pressing "OK." To reset and begin anew, users simply press "Reset."

Areas:

Level Selection

Search

Country States Districts

+ India

Selected:: 0

OK Reset

2. Second, the user must select the indicators they want to download data. Once the selection has been made, the user needs to press "OK," and if they want to start over, they need to press "Reset."

Indicators:

-- Select --

Sector

search

Rural

+ Enrolment

+ School

+ Teachers

+ Outcome

Selected:: 0

OK Reset

3. Finally, users select the desired time period for data download. Upon making the selection, users confirm by clicking "OK." Should they wish to reset their choices and begin afresh, they can simply press "Reset."

Time Period:

Q4.2012

Search

Select All

Q4.2012

Q3.2012

Q2.2013

Q2.2012

Q1.2012

Selected:: 1

OK Reset

- Once all selections are finalized, users can download the data in either Excel or CVS format. If adjustments are needed, users can click the "Reset" button to modify their selections.

