

# USER MANUAL

Health Equity Assessment Toolkit (HEAT)

BUILT-IN DATABASE EDITION, VERSION 5.0



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# 1 Introduction

Equity is at the heart of the United Nations 2030 Agenda for Sustainable Development, which aims to “leave no one behind”. This commitment is reflected throughout the 17 Sustainable Development Goals (SDGs) that Member States have pledged to achieve by 2030.

Monitoring inequalities (observable differences across population subgroups) is essential for tackling inequities (differences that are deemed unfair, avoidable or remediable): it allows identifying vulnerable population subgroups that are left behind and helps inform equity-oriented policies, programmes and practices that can close existing gaps.

The World Health Organization (WHO) is committed to achieving equity in health and has developed a number of tools and resources for monitoring health inequalities, including the Health Equity Assessment Toolkit.

The **Health Equity Assessment Toolkit** is a free and open-source software application that facilitates the exploration, analysis and reporting of health inequalities. Through innovative and interactive data visualizations, the software makes it easy to assess and communicate data about health inequalities. Disaggregated data and summary measures are visualized in a variety of graphs and tables that can be customized according to users’ needs. Results can be exported to communicate findings to different audiences and inform evidence-based decision making.

The software is available in **two editions**:



**HEAT** (built-in database edition), which contains datasets of disaggregated data from the WHO Health Inequality Data Repository,



**HEAT Plus** (upload database edition), which allows users to upload their own datasets of disaggregated data.

Together, HEAT and HEAT Plus are powerful tools that help make data about inequalities accessible and bring key messages to decision-makers to tackle inequities and achieve the SDGs.

This **HEAT user manual** accompanies the built-in database edition of the toolkit and provides detailed information about the features and functionalities of HEAT. Information on how to access HEAT are provided in Section 2, followed by an overview on how to use HEAT in Section 3 (including a quick guide to getting started, instructions on how to navigate the tool and a list of resources to learn more about the software). Section 4 (Explore inequality) and Section 5 (Compare inequality) provide more details about the different views and visualizations available in HEAT. Throughout the user manual, blue boxes highlight links to further resources and practical tips for using HEAT.

You may want to read this user manual sequentially and in its entirety, or consult different sections as required. You are also encouraged to consult the other documents that accompany HEAT, including the technical notes and indicator metadata, which provide detailed information about the data displayed in HEAT. Moreover, you may want to supplement these resources with materials that provide further information on the theoretical and/or practical steps of health inequality monitoring, such as the WHO’s *Handbook on health inequality monitoring* and *National health inequality monitoring: a step-by-step manual*.



## LINKS

- [WHO Health Inequality Monitor](#)
- [WHO Health Inequality Data Repository](#)
- [WHO Health Equity Assessment Toolkit](#)

## 2 How to access HEAT

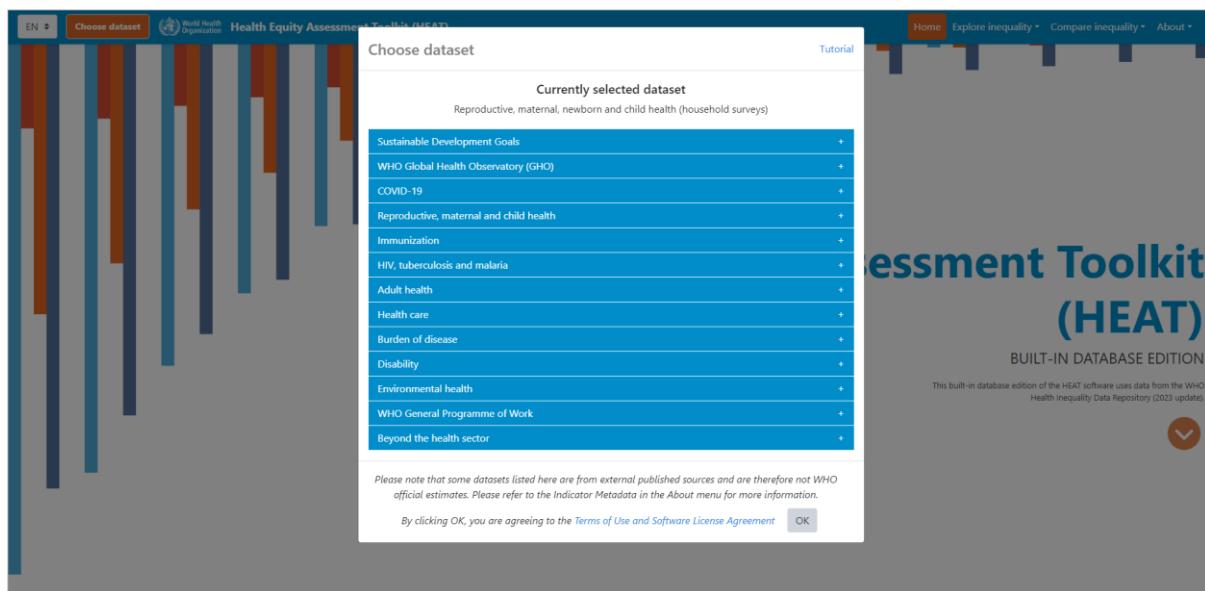
HEAT is available as an online version. This version does not require any installation and can be accessed in any web browser and on all desktop or laptop computers and mobile devices (minimum screen size of 7.9 inches recommended)<sup>1</sup>. The latest version of HEAT is available at: [https://www.who.int/data/inequality-monitor/assessment\\_toolkit](https://www.who.int/data/inequality-monitor/assessment_toolkit).

## 3 How to use HEAT

### 3.1 Getting started

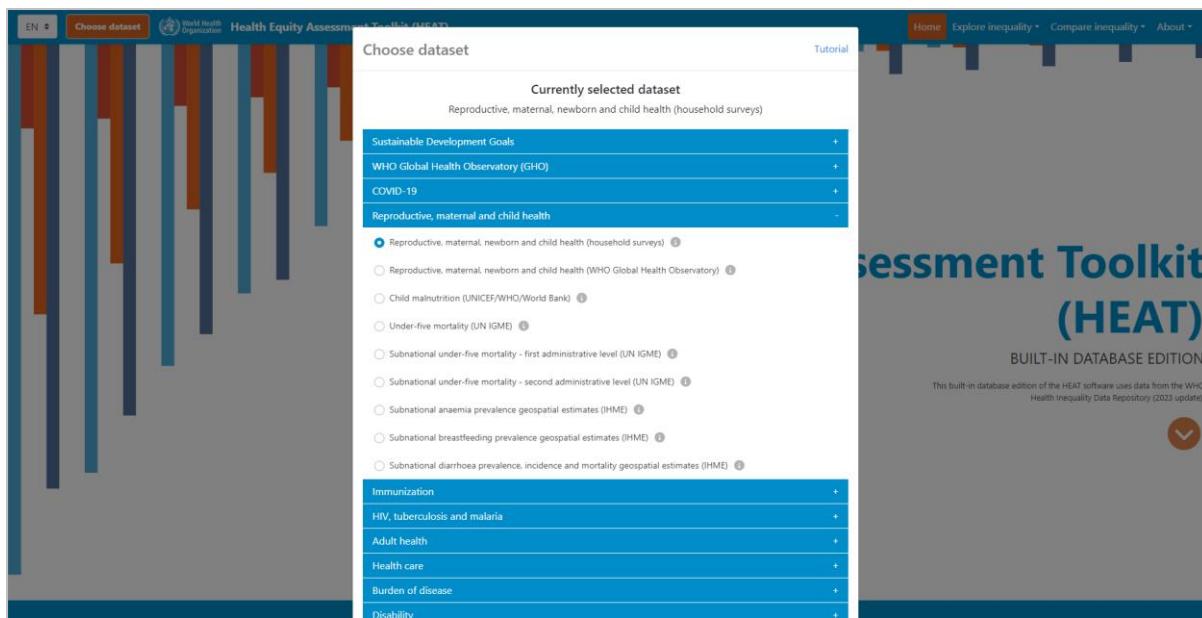
#### 3.1.1 Choose dataset

In order to use HEAT, you first need to **choose your desired dataset**.

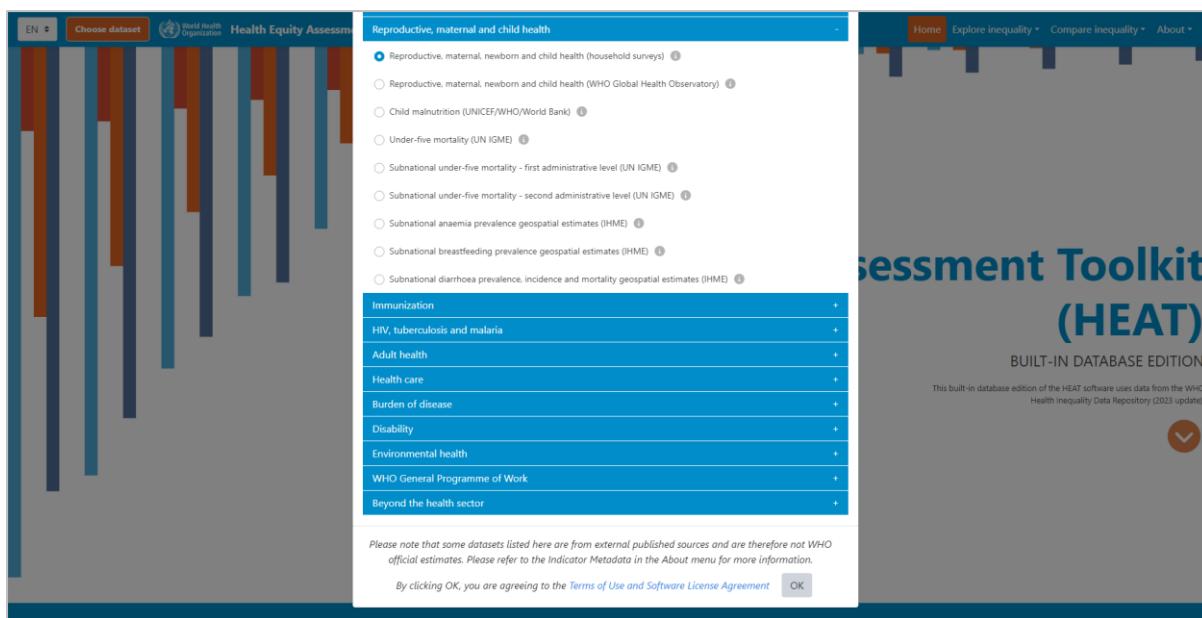


Expand the categories to view the available datasets. More information about the contents and original data sources of each dataset is provided in the information button. Note that more detailed information about the sources and indicators for each dataset can be found in the Indicator Metadata under the About menu.

<sup>1</sup> Please note that Internet Explorer is not currently supported.



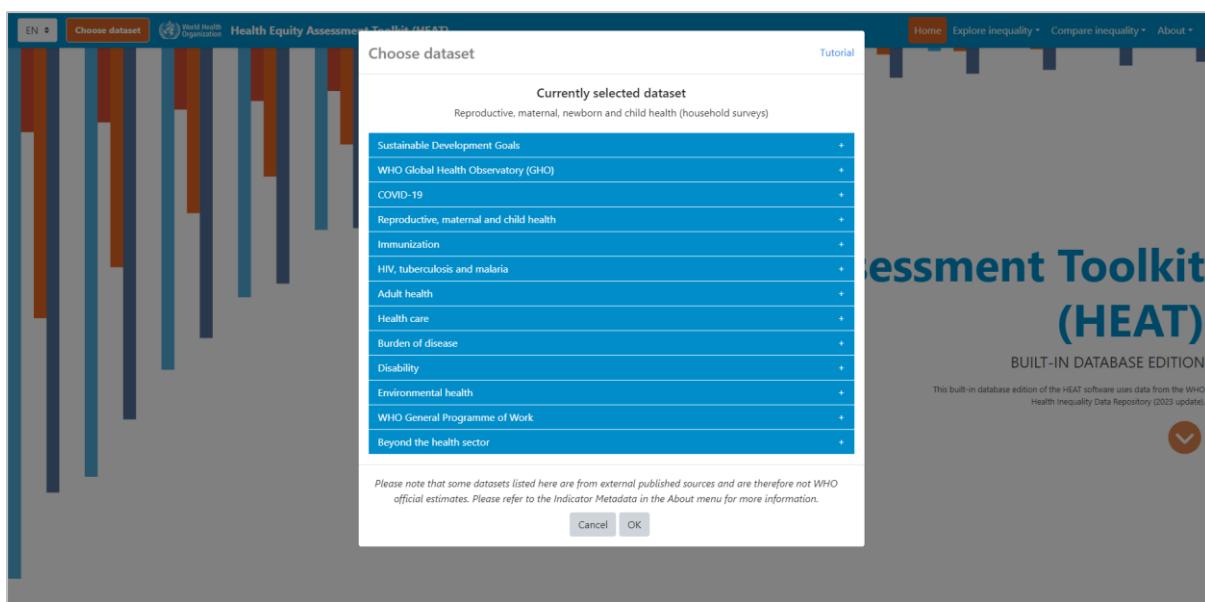
Once you have selected your desired dataset, click the 'OK' button to proceed. Note that by clicking OK, you agree to the **terms of use and software license agreement**.



To change datasets, click the orange 'Choose dataset' button in the top left corner.



This will bring up the pop-up window that allows you to select another dataset. Once you have selected your desired dataset, click the 'OK' button to proceed. Click the 'Cancel' button to return to your previous selection.

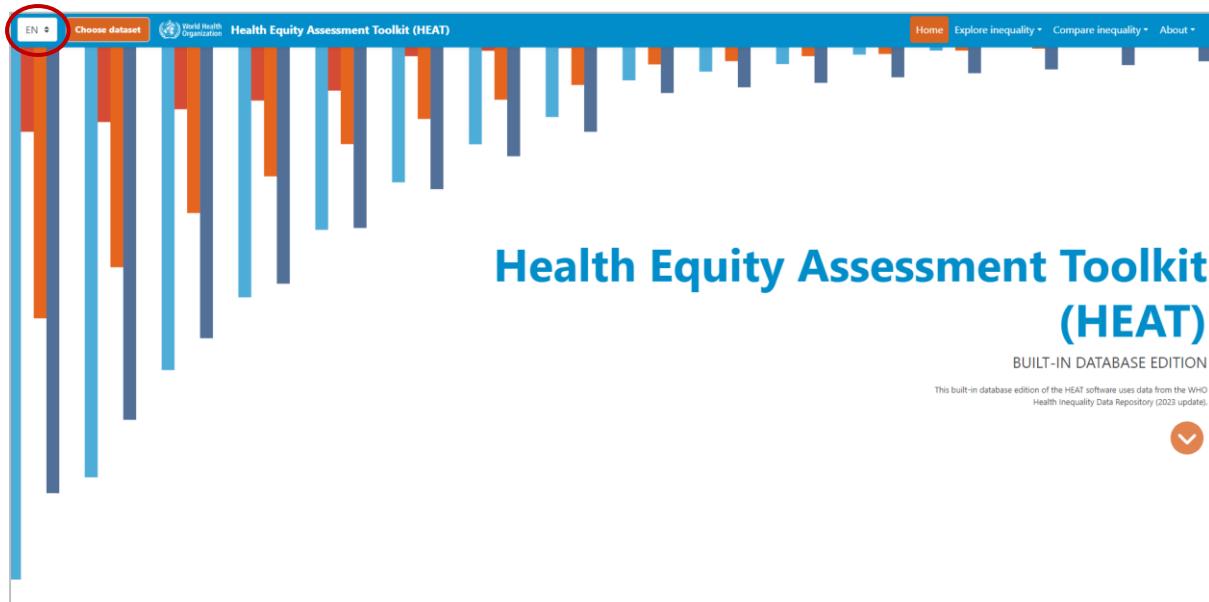


### TIPS for getting started

The 'Choose dataset' pop-up window includes a link to a short video tutorial. Click the 'Tutorial' link in the top right corner to view a short introductory video on how to use HEAT.

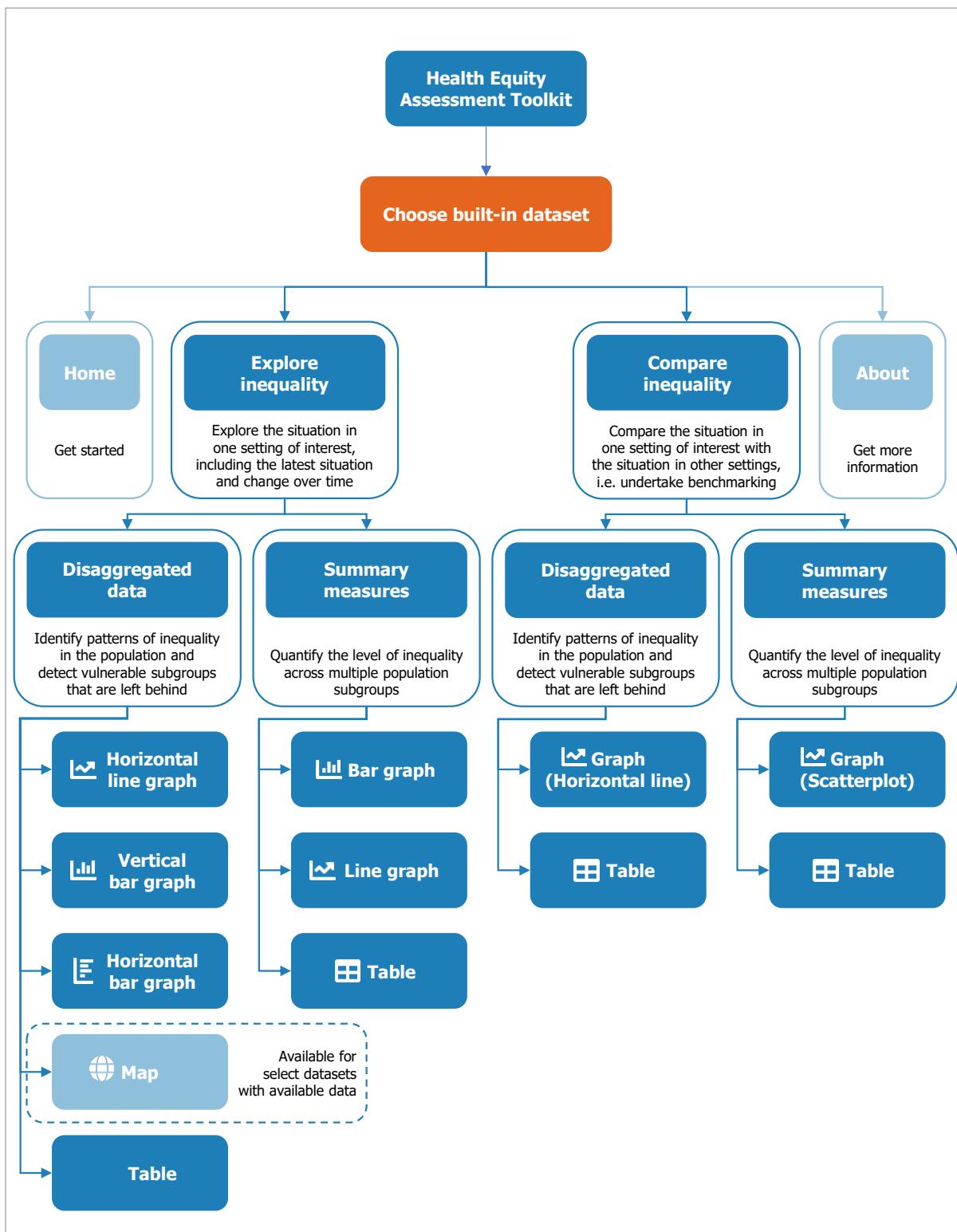
#### 3.1.2 Choose language

To view the tool in another language, click the language menu in the top left corner (English (EN) by default) and select your language of choice (French (FR), Portuguese (PT) or Spanish (ES)).



### 3.1.3 HEAT structure

Figure 1 provides an overview of the structure of HEAT. Please refer to Section 3.2 for instructions on how to navigate HEAT and Section 3.3 for a list of resources to learn more about HEAT. Section 4 and Section 5 provide detailed descriptions of the views and visualizations available in HEAT.

**Figure 1** HEAT structure



## TIPS for getting started

To get started, go to **Explore inequality** and assess the situation in your setting of interest, first using 'Disaggregated data' and then 'Summary measures'.

Once you have explored the situation in one setting, go to **Compare Inequality** to compare the situation in that setting with the situation in other settings, using both 'Disaggregated data' and 'Summary measures'.

## 3.2 Navigating HEAT

### 3.2.1 Navigation menu

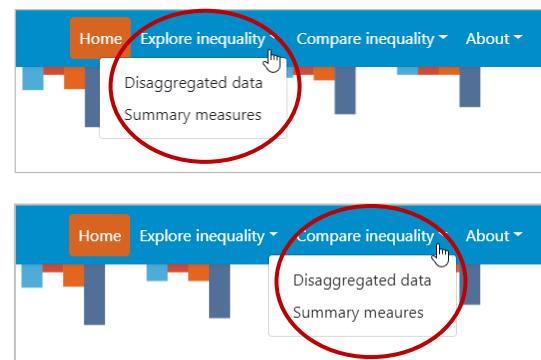
Use the navigation menu, located in the top-right corner of the software, to navigate to the different sections of the software. The active section will always be highlighted in orange, such as 'Home' while you are on the home page.

The software is organized around two main components:

- **Explore inequality** allows you to explore the situation in one setting of interest, including the latest situation of inequality and the change in inequality over time.
- **Compare inequality** enables you to compare the situation in one setting of interest with the situation in other settings, i.e. undertake benchmarking.

Additionally, when hovering over 'Explore inequality' or 'Compare inequality', you can choose between two different subcomponents:

- **Disaggregated data** show the situation by population subgroups. They are important to identify patterns of inequality in the population and identify vulnerable subgroups that are being left behind.
- **Summary measures** quantify the level of inequality across multiple population subgroups. They are useful to compare the situation between different indicators and inequality dimensions and assess changes in inequality over time.

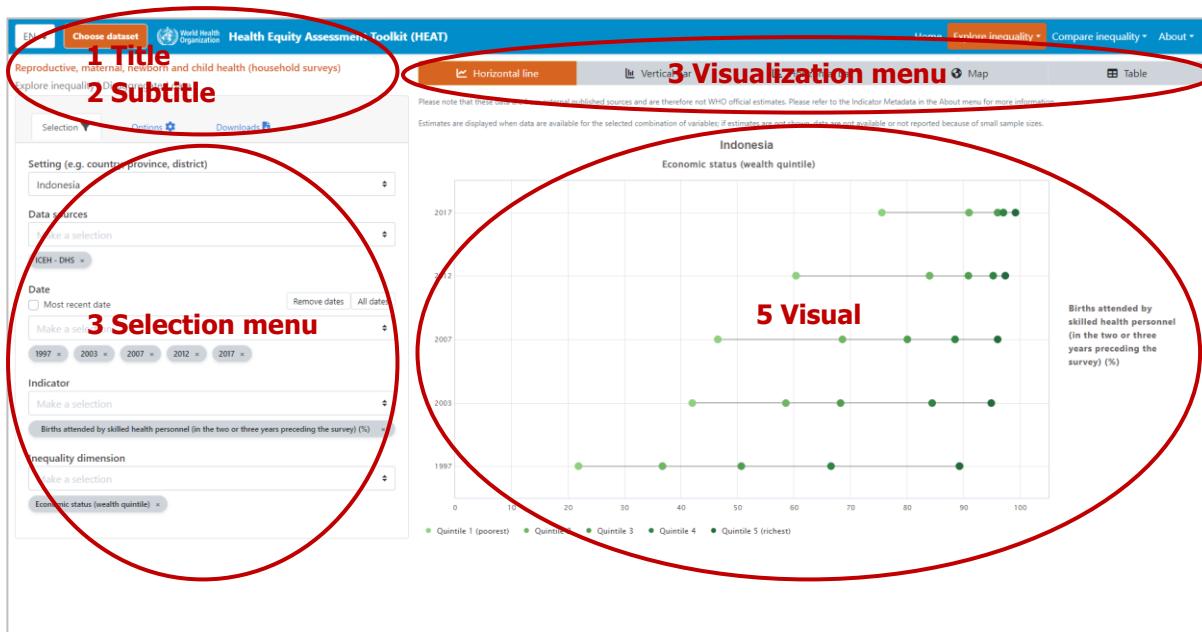


### 3.2.2 Views

Click 'Disaggregated data' or 'Summary measures' under 'Explore inequality' or 'Compare inequality' to access different views. Each view has the same layout:

- 1 The **title** in the top-left corner shows the chosen dataset.
- 2 The **subtitle** in the top-left corner indicates the component and subcomponent you are looking at, such as 'Explore inequality' and 'Disaggregated data'.
- 3 The **visualization menu** across the top allows you to navigate between different visualization types, including bar graphs, line graphs, maps and tables.

- 4 The **selection menu** on the left enables further customization of your view, for example you can select your data, use different options to modify your view and download results.
- 5 The **visual** at the centre shows your results.

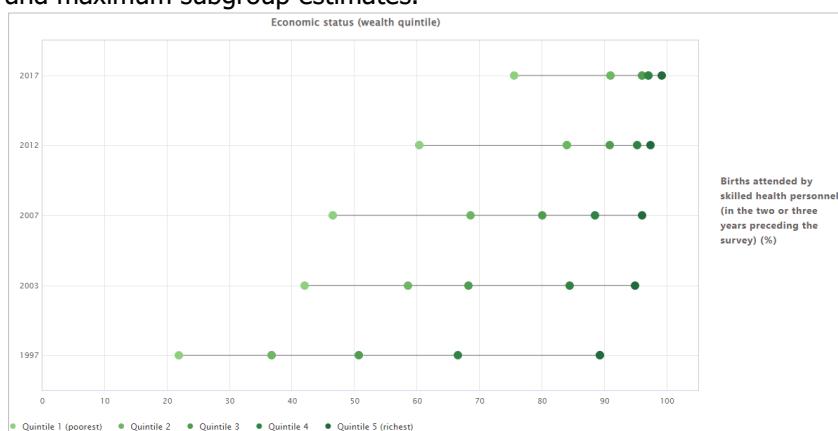


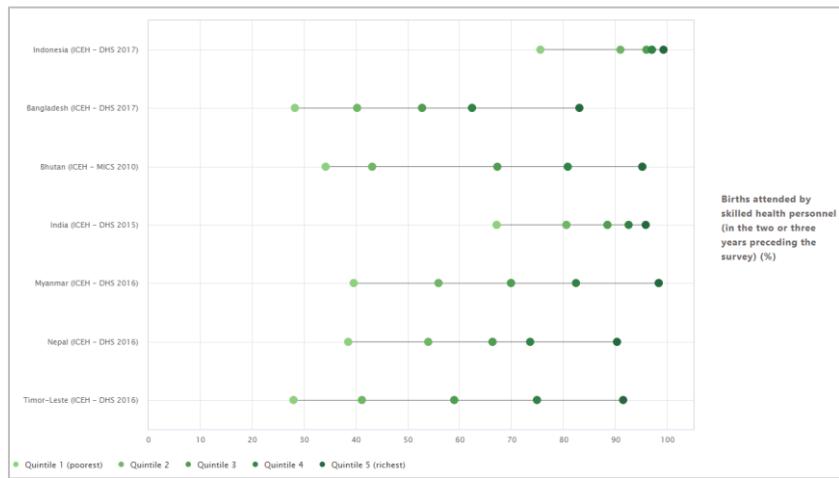
### 3.2.3 Visualization menu

The visualization menu across the top of each view allows you to navigate between different visualizations types. Table 1 lists the visualization types available in HEAT.

**Table 1** HEAT visualization types

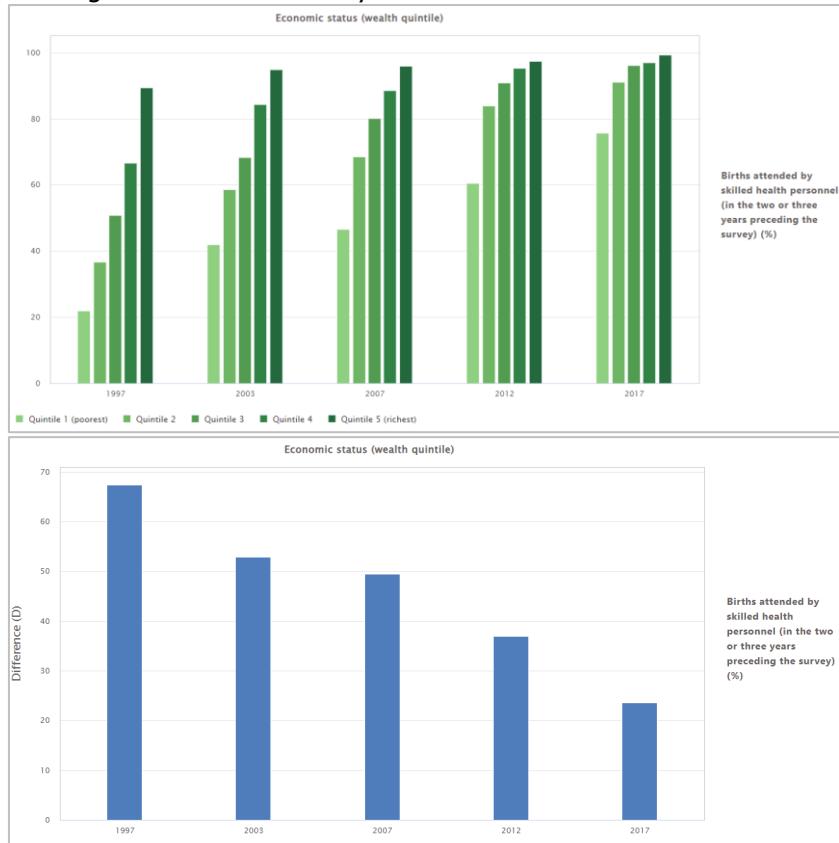
Visualization type	Description
Horizontal line graph	Disaggregated data are presented in horizontal line graphs (also called <a href="#">equiplots</a> ). Data are shown by date (under 'Explore inequality') or setting (under 'Compare inequality'). For each date/setting (displayed on the y-axis), there are multiple coloured data points – one for each population subgroup. Black horizontal lines indicate the difference between minimum and maximum subgroup estimates.





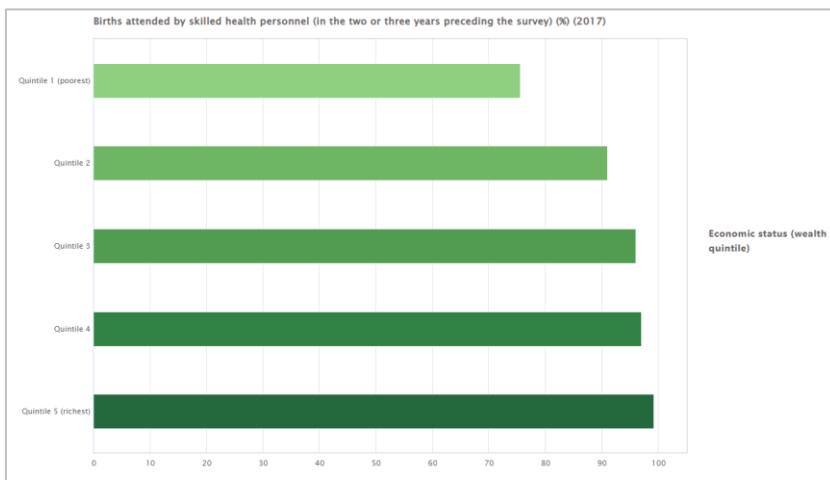
### Vertical bar graph

Disaggregated data and summary measures are presented in vertical bar graphs. For each date (displayed on the x-axis), there are one or more coloured bars: for disaggregated data, there are multiple bars – one for each population subgroup; for summary measures there is one bar showing the selected summary measure.



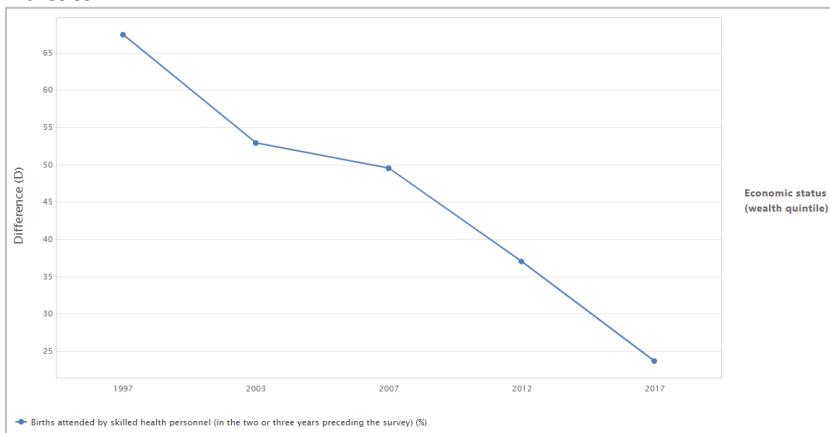
### Horizontal bar graph

Disaggregated data are shown in horizontal bar graphs. Each population subgroup (displayed on the y-axis) is represented by one bar.



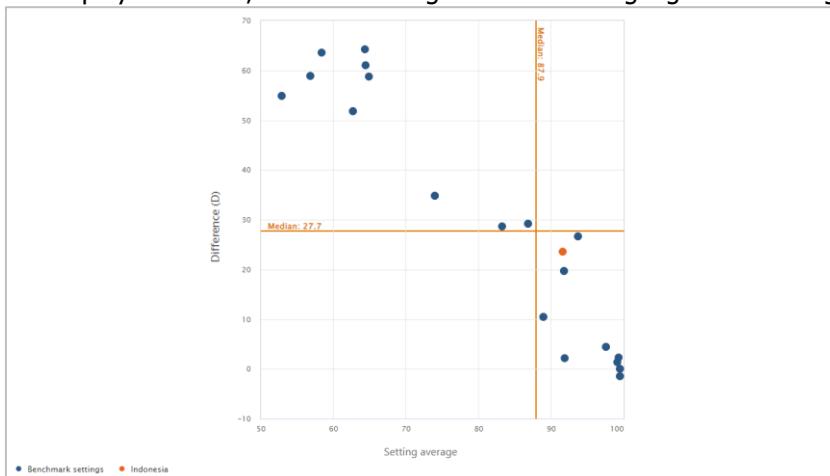
#### Line graph

Summary measures are shown in line graphs. For each date (displayed on the x-axis), there is one data point showing the selected summary measure. Data points are connected by lines. Lines are coloured by indicator.



#### Scatterplot

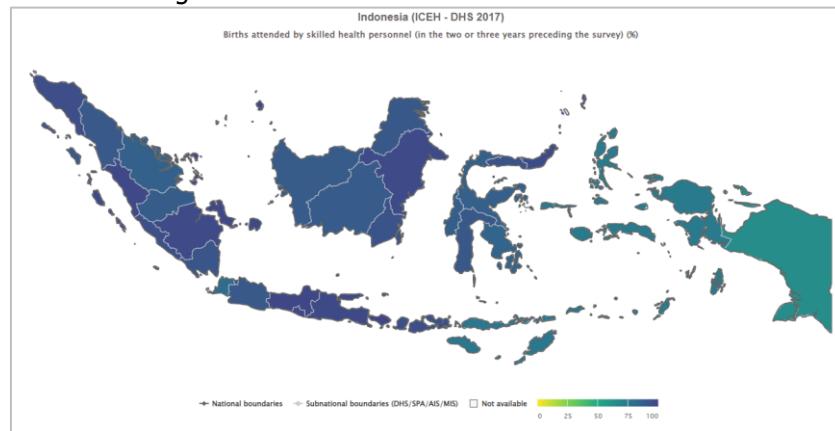
Scatterplots show setting average (on the x-axis) and within-setting inequality as measured by a selected summary measure (on the y-axis). Each setting is represented by one coloured circle: benchmark settings are displayed in blue, and the setting of interest is highlighted in orange.



#### Map

Data disaggregated by subnational region are displayed in maps. Maps show the value of the indicator for each region, ranging from low

(displayed in yellow) to high (displayed in dark blue). Note that this visualization type is only available for one dataset showing reproductive, maternal, newborn and child health indicators from household surveys. In addition, maps are only available for data disaggregated by subnational region and only for data from DHS with available boundaries of subnational regions that match the data.



#### Table

Disaggregated data and summary measures are displayed in tables and provide detailed information about the data points.

Setting	Year	Indicator name	Dimension	Subgroup	Estimate	Population share
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Quintile 1 (poorest)	60.4	21.5
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Quintile 2	84.0	19.8
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Quintile 3	90.9	19.7
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Quintile 4	95.3	20.6
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Quintile 5 (richest)	97.4	18.3

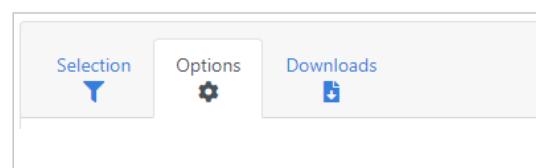
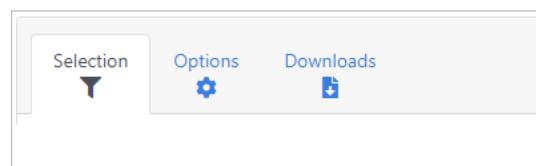
  

Setting	Year	Indicator name	Dimension	Summary measure name	Estimate
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Difference (D)	37.0
Indonesia	2007	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Difference (D)	49.5
Indonesia	2002	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Difference (D)	52.9
Indonesia	1997	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status	Difference (D)	67.4

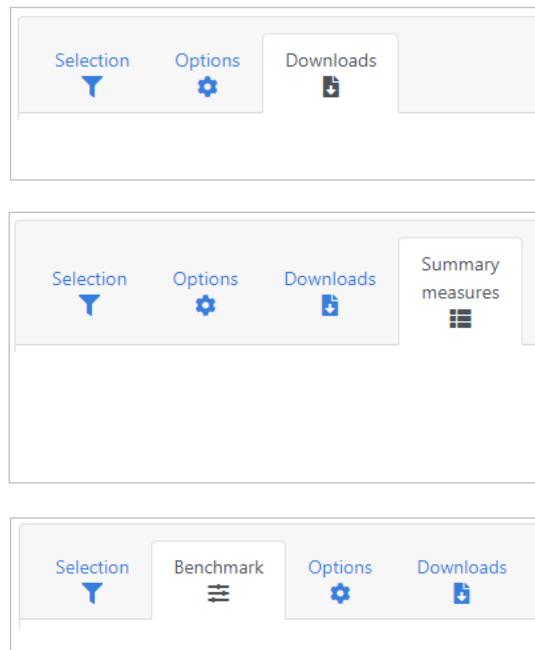
### 3.2.4 Selection menu

The selection menu on the left of each view allows you to customize the results displayed in the visual. The selection menu comprises three or four tabs, depending on the view you are looking at.

- **Selection** Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s), inequality dimension(s) and summary measure(s), if applicable.
- **Options** Use different options to modify your visual, such as selecting axis ranges and adding titles. The options that are available vary from view to view, depending on what data and visualization type you are looking at.

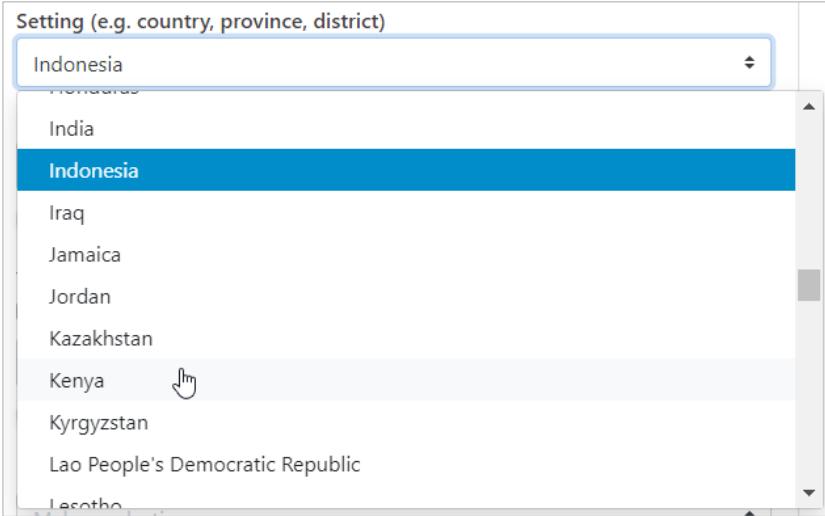


- **Downloads** Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files). Note that in table views, you are only able to download the data (i.e. no graph).
- **Summary measures** See specific summary measure calculations. Note that this tab is only available under the 'Explore inequality' component for 'Disaggregated data' displayed in 'Horizontal bar graphs'. Specific difference and ratio measures are calculated for inequality dimensions with more than 30 population subgroups (such as subnational regions in some countries).
- **Benchmarks** Choose the comparison settings for benchmarking. This tab is only available in views under the 'Compare inequality' component of the tool.



Each tab of the selection menu comprises multiple selectors that allow you to modify the data displayed in the visual. To facilitate navigation, the different selector types are described in Table 2.

**Table 2** HEAT selector types

Selector type	Navigation
<b>Dropdown menu (single select)</b>	<p>Select a single item, such as your setting of interest.</p>  <p>Setting (e.g. country, province, district)</p> <p>Indonesia</p> <p>Click the box to see all the available settings and make your selection.</p>  <p>Setting (e.g. country, province, district)</p> <p>Indonesia</p> <p>India</p> <p><b>Indonesia</b></p> <p>Iraq</p> <p>Jamaica</p> <p>Jordan</p> <p>Kazakhstan</p> <p>Kenya</p> <p>Kyrgyzstan</p> <p>Lao People's Democratic Republic</p> <p>Lesotho</p> <p>Alternatively, replace an already chosen setting by clicking the box and typing (part of) the name of the setting you are looking for.</p>

Setting (e.g. country, province, district)

### Dropdown menu (multi-select)

Select one or more items, such as your indicator(s) of interest.

#### Indicator

Click the box to see all the available indicators and make your selection.

- Adolescent fertility rate (births per 1000 women aged 15-19 years)
- Antenatal care coverage - at least four visits (in the five years preceding the survey) (%)
- Antenatal care coverage - at least four visits (in the two or three years preceding the survey) (%)
- Antenatal care coverage - at least one visit (in the five years preceding the survey) (%)
- Antenatal care coverage - at least one visit (in the two or three years preceding the survey) (%)
- BCG immunization coverage among one-year-olds (%)
- 

Alternatively, search for a specific indicator by typing (part of) the name of the indicator you are looking for and make your selection.

- Antenatal care coverage - at least four visits (in the five years preceding the survey) (%)
- Antenatal care coverage - at least four visits (in the two or three years preceding the survey) (%)
- Antenatal care coverage - at least one visit (in the five years preceding the survey) (%)
- Antenatal care coverage - at least one visit (in the two or three years preceding the survey) (%)

Remove selected indicators, by clicking on the indicator name.

#### Indicator

Note that often there is a limit to the number of items that you can display in the visual. For example, in most graphs, you can only show up to five indicators simultaneously. Once you have selected the maximum number of items, the selector will become grey and unresponsive. To make further changes, first remove selected items and then continue add new ones.

The screenshot shows a list of five indicators under the heading 'Indicator'. Each item has a small 'x' icon to its right. The items are:

- Births attended by skilled health personnel (in the two or three years preceding the survey) (%)
- Antenatal care coverage - at least four visits (in the two or three years preceding the survey) (%)
- Antenatal care coverage - at least one visit (in the two or three years preceding the survey) (%)
- Births by caesarean section (in the two or three years preceding the survey) (%)
- Early initiation of breastfeeding (in the two years preceding the survey) (%)

**Numeric input**

Enter numeric values, e.g. the axis minimum and maximum.

The screenshot shows a form with three fields:

- 'Axis range' (text input field)
- 'Axis minimum' (empty input field)
- 'Axis maximum' (empty input field)

Click inside the box and enter a number.

The screenshot shows a form with three fields:

- 'Axis range' (text input field)
- 'Axis minimum' (input field containing '0' with a selection arrow)
- 'Axis maximum' (empty input field)

Alternatively, use the arrows to select a number.

The screenshot shows a form with three fields:

- 'Axis range' (text input field)
- 'Axis minimum' (input field containing '1' with a selection arrow)
- 'Axis maximum' (empty input field)

**Text input (empty)**

Enter information, such as horizontal and vertical axis titles.

The screenshot shows two input fields:

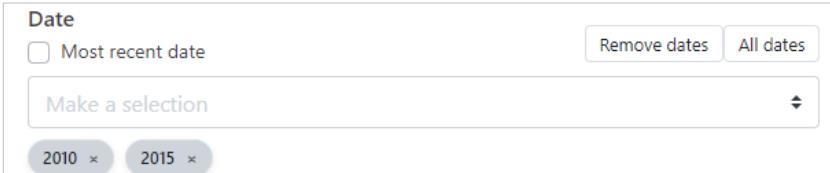
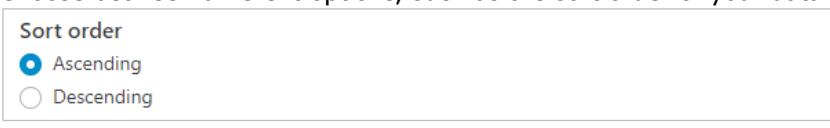
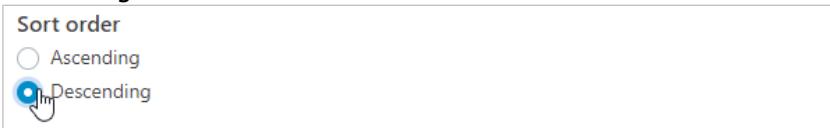
- 'Horizontal axis title' (empty input field)
- 'Vertical axis title' (empty input field)

Click inside the box and enter your text.

The screenshot shows two input fields:

- 'Horizontal axis title' (input field containing 'Estimate')
- 'Vertical axis title' (empty input field)

---

<b>Text input (pre-filled)</b>	Modify existing information, such as the main title (by default, the main title includes information about the setting, data source(s) and year(s) displayed in the visual).
	<p>Main title</p>  <p>Click inside the box and delete, alter or replace the main title with the text of your choice.</p> <p>Main title</p> 
<b>Checkbox</b>	Limit the view, e.g. to the most recent date, or include information, such as 95% confidence intervals.
	<p>Date</p>  <p>Confidence intervals</p>  <p>Check the box to limit the view to the most recent year or include 95% confidence intervals.</p> <p>Date</p>  <p>Confidence intervals</p> 
<b>Radio button</b>	Choose between different options, such as the sort order of your data.
	<p>Sort order</p>  <p>Click the sort order of your choice to rearrange data in ascending or descending order.</p> <p>Sort order</p> 
<b>Switch button</b>	Switch an item on or off, such as reference lines in graphs.
	<p>Reference lines</p>  <p>Click the switch to display setting average and/or median lines.</p>

---

**Reference lines**

- Setting average  
 Median

**Toggle button**

Toggle between different options, such as the file type for graph downloads.

**Graph download**

The graph will be downloaded as a png or jpg image or pdf. Titles and axis labels will be displayed according to your selections.

**Select image type**

PNG

JPG

PDF

Select the file type of your choice by clicking the relevant button.

**Graph download**

The graph will be downloaded as a png or jpg image or pdf. Titles and axis labels will be displayed according to your selections.

**Select image type**

PNG

JPG

PDF

**Action button**

Launch actions, such as the download of your graph.

Download graph

Click the button to start the graph download.

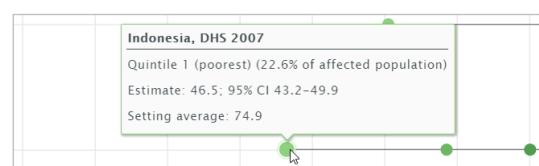
Download graph



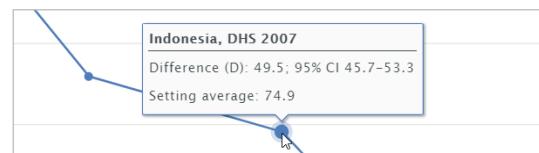
### 3.2.5 Tooltips

Hover over data points in graphs to see a tooltip with additional information about the data point.

For **disaggregated data**, the tooltip will show information about the setting, source, date, subgroup name and population share, subgroup estimate and 95% confidence interval, as well as the setting average, if available.

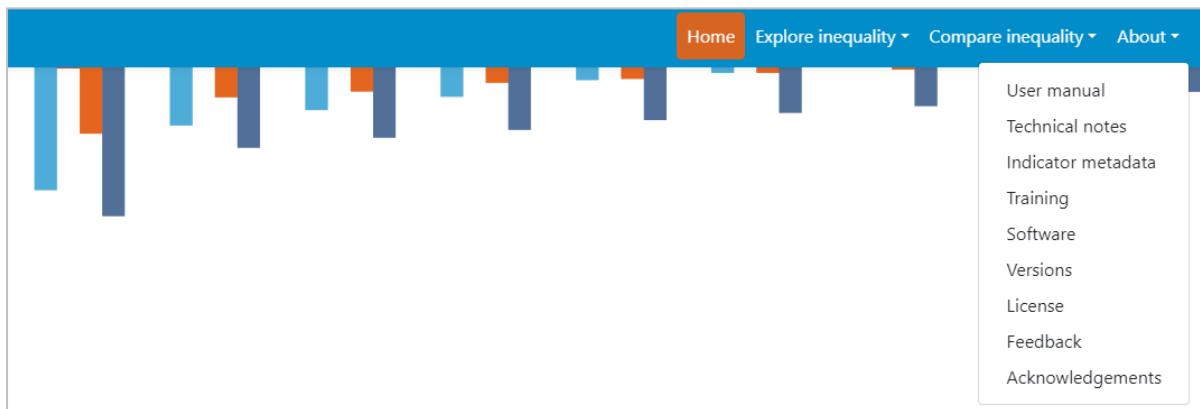


For **summary measures**, the tooltip includes information about the setting, source and date as well as the summary measure estimate and 95% confidence interval, as well as the setting average, if available.



### 3.3 Learning more

Further information about HEAT are provided in the **About pages** of the software. These can be accessed by hovering over 'About' in the navigation menu in the top-right corner of the software.



- This **user manual** details all features and functionalities of HEAT.
- The **technical notes** provides detailed information about the data displayed in HEAT, including the disaggregated data and summary measures.
- The **indicator metadata** contains detailed information about the datasets shown in HEAT.
- **Training** links to a short, free eLearning course on how to use HEAT and HEAT Plus.
- **Software** provides information about the software used to develop HEAT.
- **Versions** shows the history of the different versions of HEAT.
- **License** contains the terms of use and software license agreement.
- **Feedback** gives instructions on how to provide feedback about the software.
- **Acknowledgements** lists the contributions of our colleagues, collaborators, contractors and partners to developing this software.

## 4 Explore inequality

Under 'Explore inequality', you can **explore the situation in one setting of interest**. Inequalities can be assessed using disaggregated data and summary measures that are visualized in a variety of different graphs, maps and tables. To access the visualizations, hover over 'Explore inequality' in the navigation menu at the top and click 'Disaggregated data' or 'Summary measures'.



### TIPS for exploring inequality

- ✓ Do start by selecting one indicator and one inequality dimension at a time, before looking at multiple indicators and dimensions simultaneously.
- ✗ It is not recommended to show favourable and adverse indicators together in one graph. The interpretation of these is different: for favourable indicators, such as skilled birth attendance, a high value is desirable (meaning high coverage), while for adverse indicators, such as under-five mortality rate, a low value is preferable (meaning low mortality).
- ✗ It is not recommended to compare changes in inequality over time if the number of subgroups differs from one time to another. For example, when looking at the situation by subnational/administrative region (such as provinces or districts), the number of regions may differ between different time points, e.g. because multiple regions are combined into one larger geographic area in one year but not in another (for sample size or other reasons). In this case, assessing changes in inequality over time may lead to false conclusions: Inherently, inequality tends to be lower in years with fewer regions. However, this may mask inequalities that exist between smaller geographic areas.

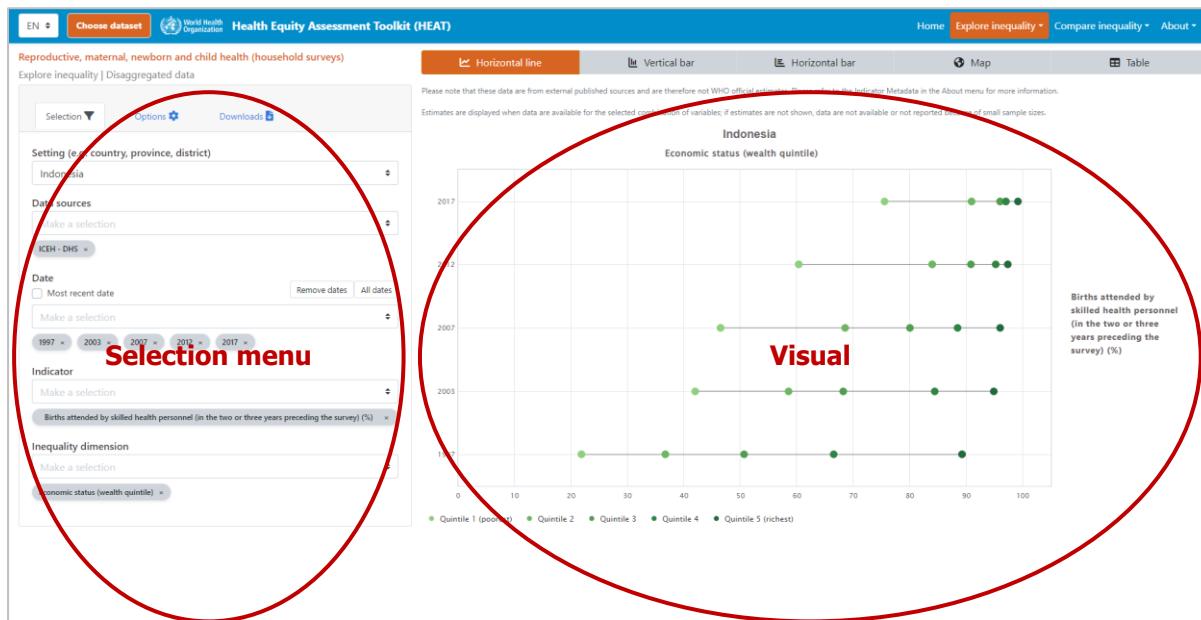
### 4.1 Disaggregated data

HEAT allows you to explore disaggregated data in different views. To access the different visualization types, click the tabs in the visualization menu across the top of the view. The selected visualization type will be highlighted in orange.



### 4.1.1 ↗ Horizontal line graph

In this view, disaggregated data are displayed in a horizontal line graph. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.

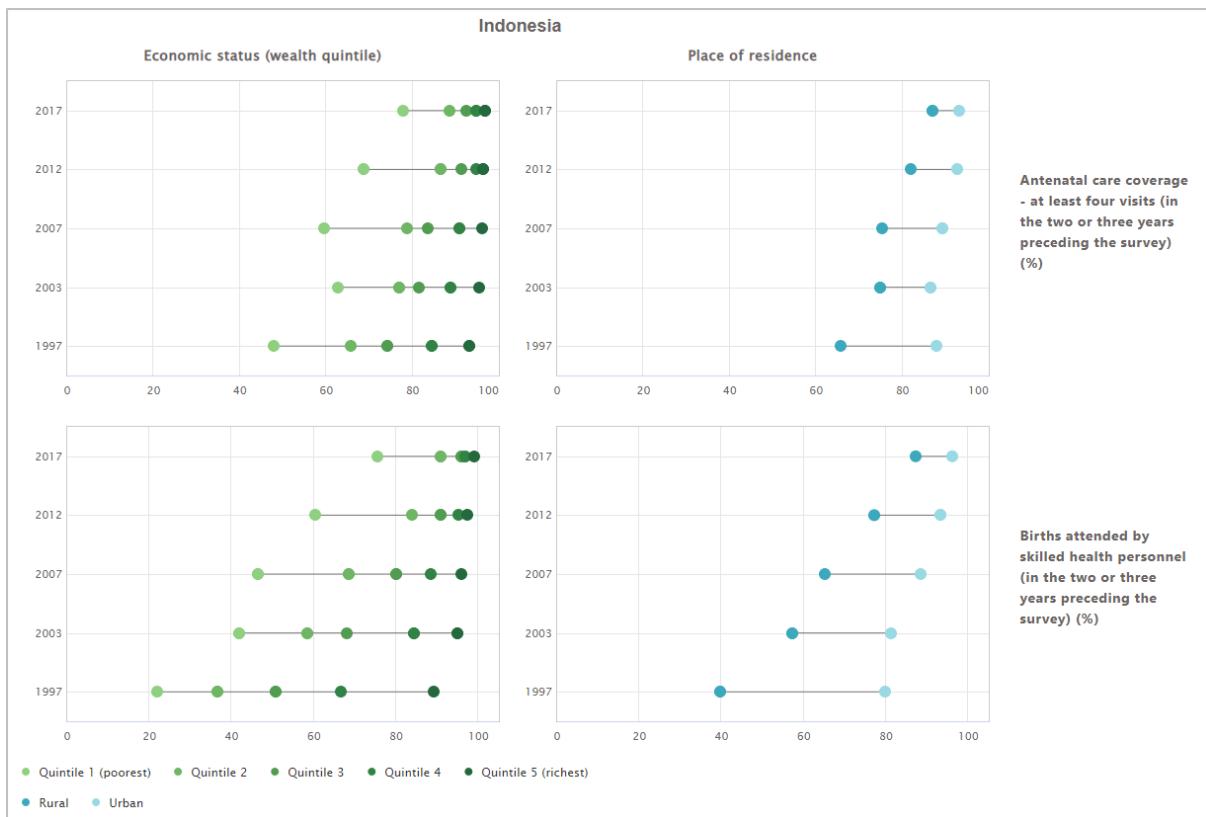


### What you see

The visual shows a horizontal line graph (also called [equiplot](#)) presenting disaggregated data (displayed on the x-axis) for a selected setting of interest. For each date (displayed on the y-axis), multiple coloured circles are shown – one for each population subgroup. Black horizontal lines indicate the difference between minimum and maximum subgroup estimates.



If more than one indicator and/or inequality dimension are selected at the same time, multiple graphs are shown – one for each indicator and/or dimension. You can choose to show up to five indicators and five dimensions simultaneously.



## How to explore

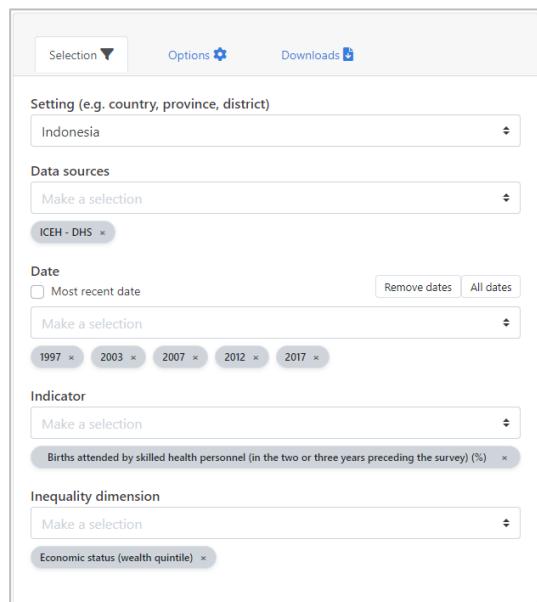
The selection menu on the left allows you to customize the results displayed in the visual. Table 3 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 3** Selection menu for the 'Horizontal line graph' showing 'Disaggregated data' under 'Explore inequality'

Tab	Description
-----	-------------

## Selection

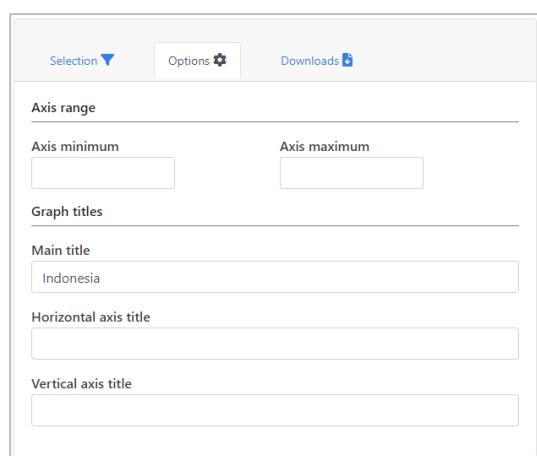
Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).



The screenshot shows the 'Selection' tab of a data visualization interface. It includes fields for 'Setting (e.g. country, province, district)' containing 'Indonesia', 'Data sources' (set to 'ICEH - DHS'), 'Date' (with options for 'Most recent date', 'Remove dates', and 'All dates'), 'Indicator' (with a selection for 'Births attended by skilled health personnel (in the two or three years preceding the survey) (%)'), and 'Inequality dimension' (set to 'Economic status (wealth quintile)').

## Options

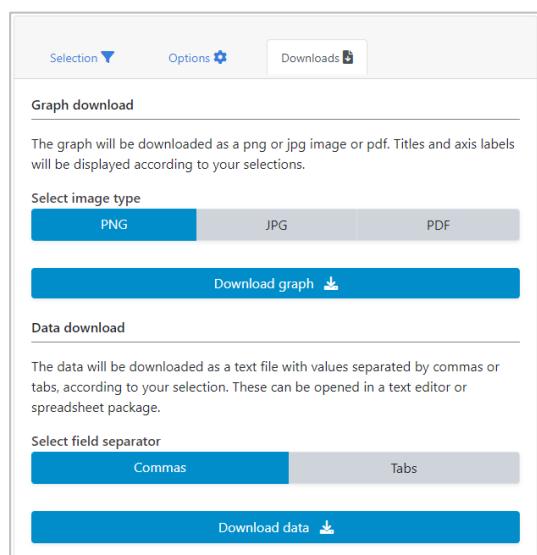
Use different options to modify your view. You can choose custom axis ranges and graph titles.



The screenshot shows the 'Options' tab of the interface. It features sections for 'Axis range' (with 'Axis minimum' and 'Axis maximum' fields), 'Graph titles' (with 'Main title' set to 'Indonesia' and fields for 'Horizontal axis title' and 'Vertical axis title'), and a general 'Graph download' section explaining the download options.

## Downloads

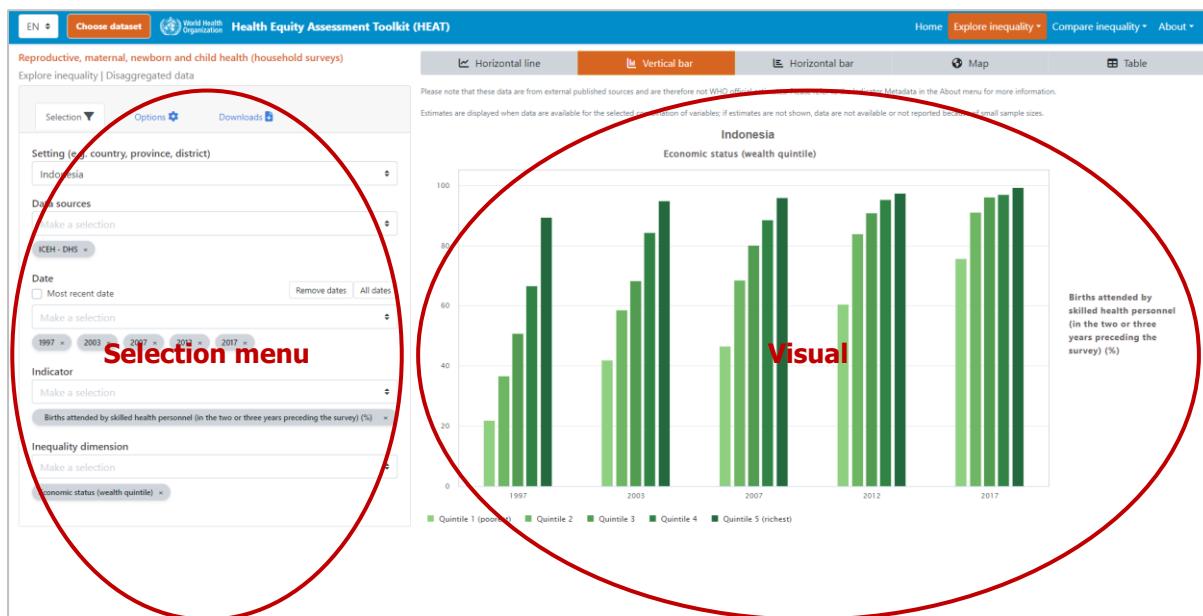
Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).



The screenshot shows the 'Downloads' tab. It includes a 'Graph download' section with a note about file types and a 'Select image type' button (set to 'PNG'), a 'Download graph' button, and a 'Data download' section with a note about file formats and a 'Select field separator' button (set to 'Commas'), a 'Download data' button, and a 'CSV' file download link.

## 4.1.2 Vertical bar graph

In this view, disaggregated data are displayed in a vertical bar graph. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.

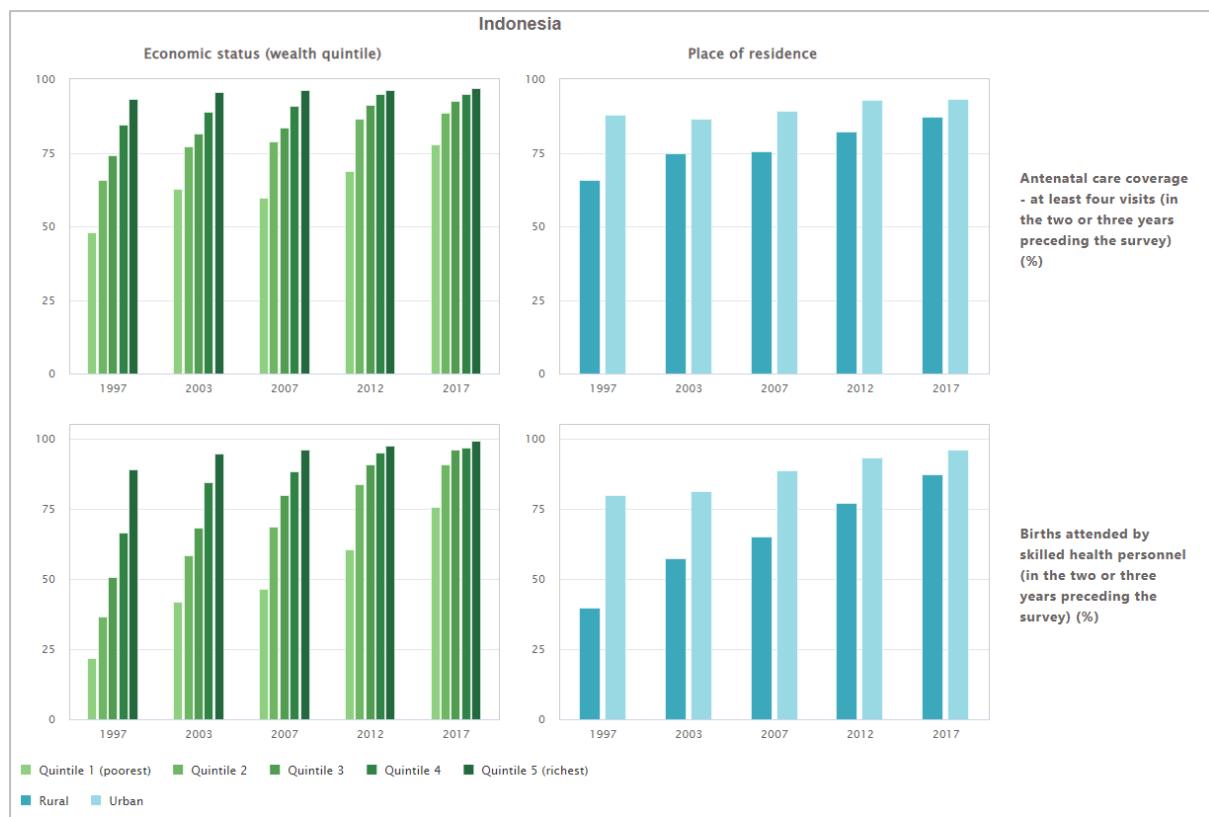


### What you see

The visual shows a vertical bar graph presenting disaggregated data (displayed on the y-axis) in a selected setting of interest. For each date (displayed on the x-axis), multiple coloured bars are shown – one for each subgroup.



If more than one indicator and/or inequality dimension are selected at the same time, multiple graphs are shown – one for each indicator and/or dimension. You can select to show up to five indicators and five dimensions simultaneously.



## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 4 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 4** Selection menu for the 'Vertical bar graph' showing 'Disaggregated data' under 'Explore inequality'

Tab	Description
-----	-------------

## Selection

Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).

The Selection interface allows users to filter data by various parameters:

- Setting:** Set to "Indonesia".
- Data sources:** Set to "ICEH - DHS".
- Date:** Set to "1997", "2003", "2007", "2012", and "2017".
- Indicator:** Set to "Births attended by skilled health personnel (in the two or three years preceding the survey) (%)".
- Inequality dimension:** Set to "Economic status (wealth quintile)".

## Options

Use different options to modify your view. You can choose to show data labels and confidence intervals, and select custom axis ranges and graph titles.

The Options interface provides various customization options:

- Data labels:** Set to "None".
- Size:** Set to "Small".
- Number of decimals:** Set to "1".
- Confidence interval:** Unchecked.
- Axis range:** Includes fields for "Axis minimum" and "Axis maximum".
- Graph titles:** Includes fields for "Main title" (set to "Indonesia"), "Horizontal axis title", and "Vertical axis title".

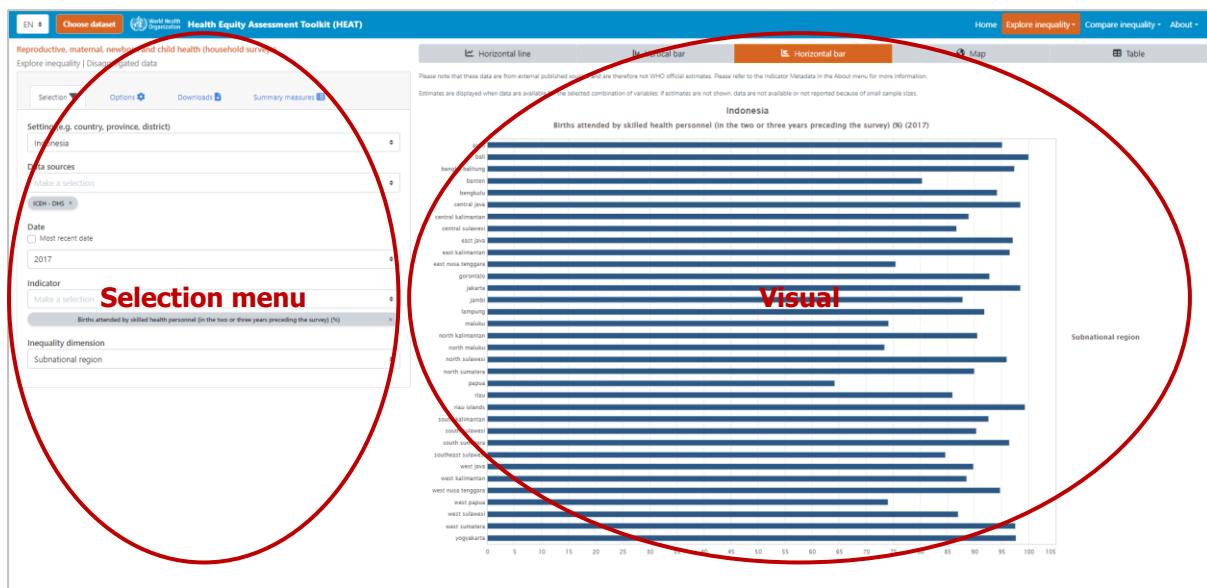
**Downloads**

Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).

The screenshot shows a user interface for downloading data from the Health Equity Assessment Toolkit (HEAT). At the top, there are tabs for 'Selection' (with a dropdown arrow), 'Options' (with a gear icon), and 'Downloads' (with a download icon). Below these are two main sections: 'Graph download' and 'Data download'. In the 'Graph download' section, users can choose between 'PNG', 'JPG', and 'PDF' formats, with 'PNG' currently selected. A large blue button labeled 'Download graph' with a download icon is centered below the format options. In the 'Data download' section, users can choose between 'Commas' and 'Tabs' as field separators, with 'Commas' currently selected. A similar blue 'Download data' button is centered below the separator options.

### 4.1.3 Horizontal bar graph

In this view, disaggregated data are displayed in a horizontal bar graph. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.



Data are shown for one date at a time, allowing for a more in-depth assessment of inequalities in your setting of interest.

#### What you see

The visual shows a horizontal bar graph presenting disaggregated data disaggregated (displayed on the x-axis) in a selected setting of interest. The vertical orange line indicates the median value (the middle point of your data) across all subgroups.



If more than one indicator is selected at the same time, multiple graphs are shown – one for each indicator. You can select to show up to three indicators simultaneously.



## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 5 provides a description of the four tabs that comprise the selection menu: selection, options, downloads and summary measures.

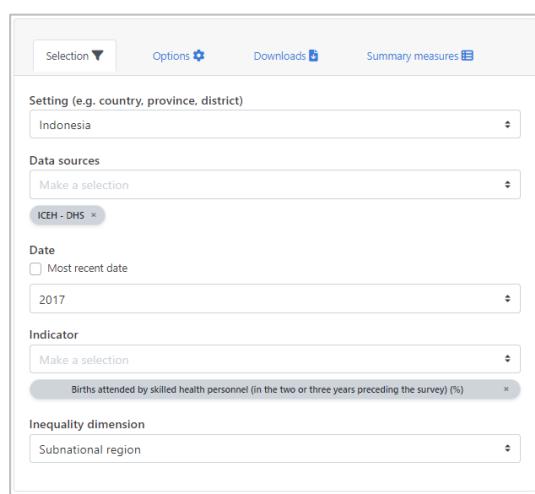
The additional 'Summary measures' tab was designed specifically to facilitate the assessment of inequalities for inequality dimensions with many subgroups, such as subnational regions. Specific difference and ratio measures are calculated for

- Dimensions with more than 30 subgroups:
  - Difference between percentile 80 and percentile 20
  - Ratio of percentile 80 to percentile 20
  - Difference between the mean estimates in quintile 5 and quintile 1
  - Ratio of the mean estimates in quintile 5 to quintile 1
- Dimensions with more than 60 subgroups:
  - Difference between percentile 90 and percentile 10
  - Ratio of percentile 90 to percentile 10
  - Difference between mean estimates in decile 10 and decile 1
  - Ratio of mean estimates in decile 10 to decile 1
- Dimensions with more than 100 subgroups:
  - Difference between percentile 95 and percentile 5
  - Ratio of percentile 95 to percentile 5
  - Difference between mean estimates in the top 5% and the bottom 5%
  - Ratio of mean estimates in the top 5% to the bottom 5%

These measures may be a more accurate reflection of the level of inequality in a setting than measuring the range between the maximum and minimum values using regular (range) difference and ratio measures, as they avoid using possible outlier values.

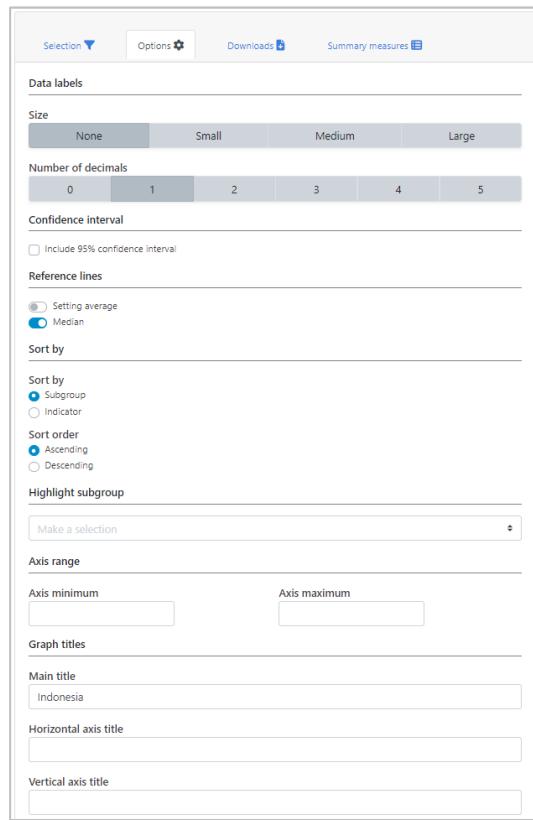
**Table 5** Selection menu for the 'Horizontal bar graph' showing 'Disaggregated data' under 'Explore inequality'

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date and indicator(s).



 Options

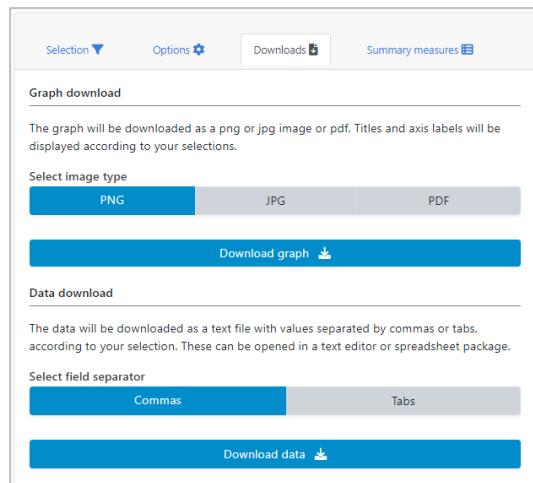
Use different options to modify your view. You can choose to show data labels, confidence intervals and reference lines; change the sort order of your data; highlight selected subgroups; and select custom axis ranges and graph titles.



The screenshot shows the 'Options' tab selected in the top navigation bar. It includes sections for 'Data labels' (with size and decimal controls), 'Confidence interval' (checkbox for 95% confidence interval), 'Reference lines' (radio buttons for average vs median), 'Sort by' (radio buttons for Subgroup vs Indicator and Ascending vs Descending), 'Highlight subgroup' (dropdown menu), 'Axis range' (input fields for minimum and maximum), and 'Graph titles' (input fields for Main title, Horizontal axis title, and Vertical axis title).

 Downloads

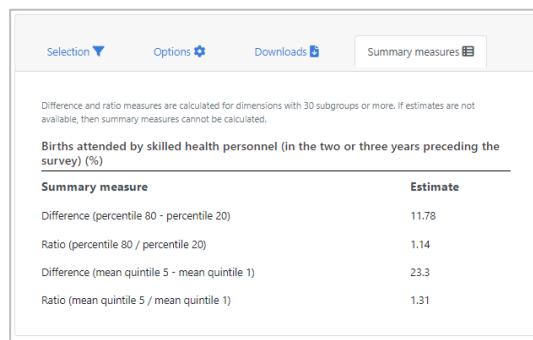
Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).



The screenshot shows the 'Downloads' tab selected. It has two main sections: 'Graph download' (with a 'Download graph' button) and 'Data download' (with a 'Select field separator' dropdown between 'Commas' and 'Tabs', and a 'Download data' button). The top navigation bar also includes 'Selection', 'Options', and 'Summary measures' tabs.

 Summary measures

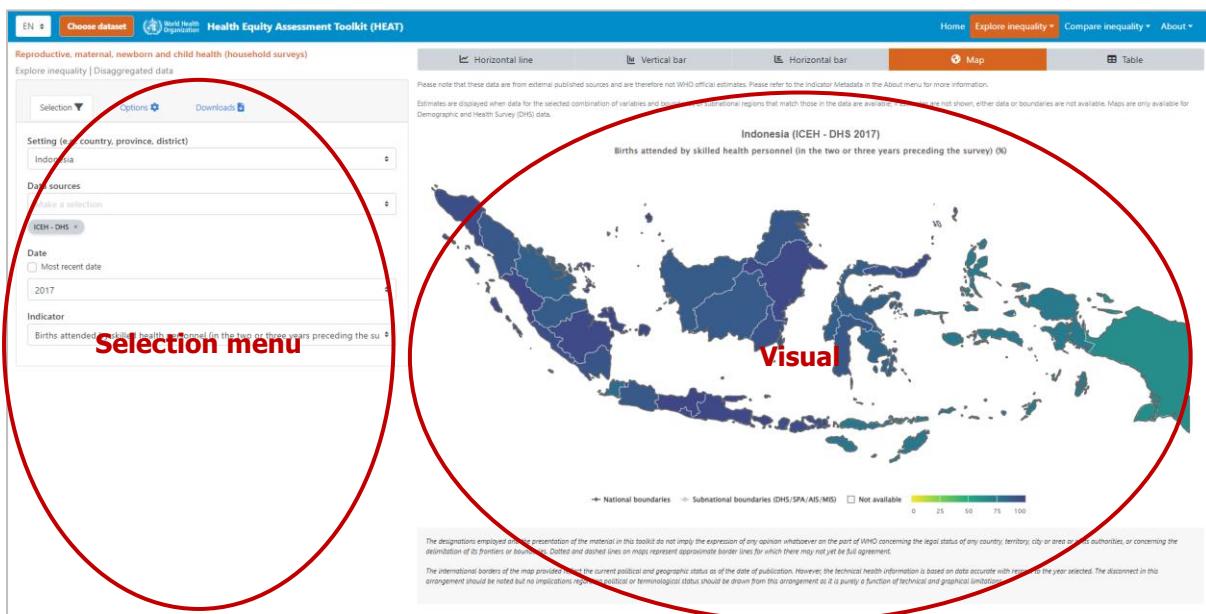
View specific summary measures calculations. Specific difference and ratio measures are calculated for inequality dimensions with more than 30 subgroups.



Summary measure	Estimate
Difference (percentile 80 - percentile 20)	11.78
Ratio (percentile 80 / percentile 20)	1.14
Difference (mean quintile 5 - mean quintile 1)	23.3
Ratio (mean quintile 5 / mean quintile 1)	1.31

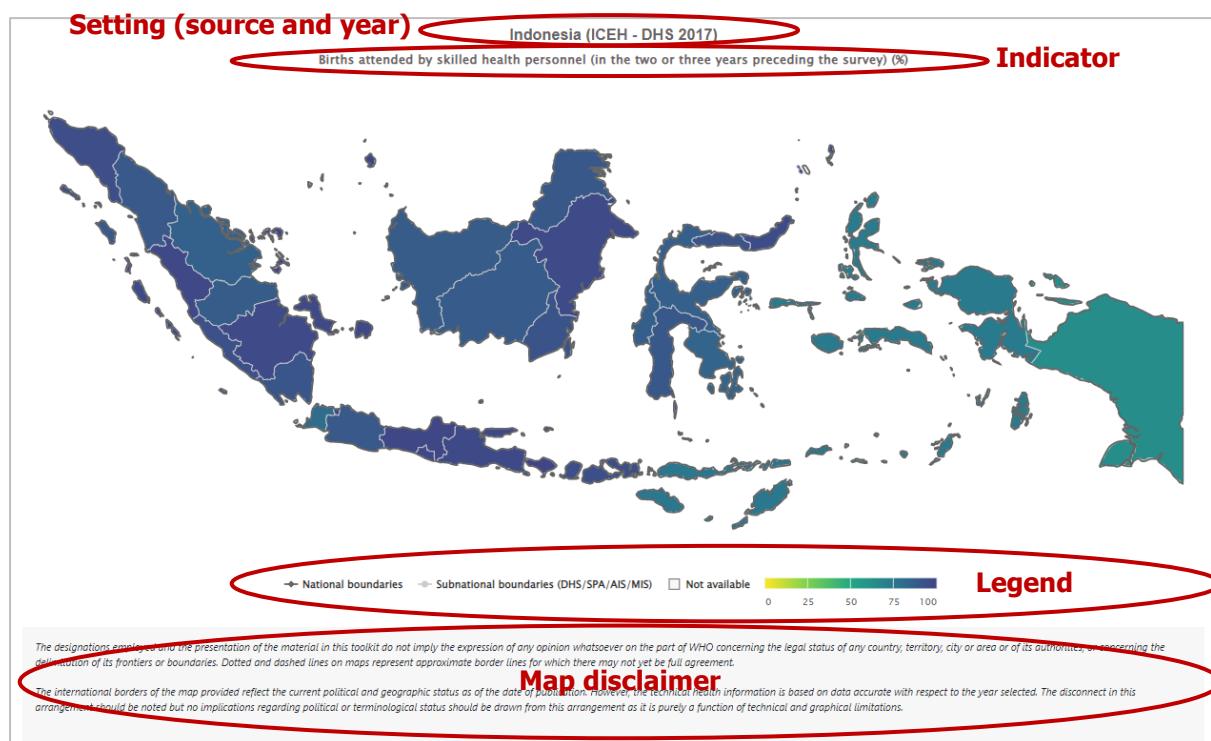
#### 4.1.4 Map

In this view, data disaggregated by subnational region are displayed in a map. The visual at the centre shows the map; the selection menu on the left allows you to customize the visual. **Note that this visualization type is only available for one dataset showing reproductive, maternal, newborn and child health indicators from household surveys. In addition, maps are only available for data disaggregated by subnational region and only for data from DHS with available boundaries of subnational regions that match the data.** Note that there may be cases where data cannot be displayed on a map due to the unavailability of map shapefiles, or discrepancies between available shapefiles and the data.



#### What you see

The visual shows a map presenting data disaggregated by subnational regions in a selected setting of interest. Coloured areas indicate subnational regions. Dark grey lines indicate national boundaries, reflecting the current political and geographic status as of the date of publication. Light grey lines indicate subnational boundaries as provided by the DHS Program.



## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 6 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 6** Selection menu for the 'Map' showing 'Disaggregated data' under 'Explore inequality'

Tab	Description
Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).
Options	Use different options to modify your view. You can choose custom axis ranges and graph titles.

**Downloads**

Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).

### 4.1.5 Table

In this view, disaggregated data are displayed in a table. The visual at the centre shows the table; the selection menu on the left allows you to customize the visual.

Setting	Date	Indicator name	Dimension	Subgroup	Estimate	Population share
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	75.6	2.5
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	91.0	20.9
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	96.0	19.6
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	97.0	20.3
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 5 (richest)	99.2	18.7
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	60.4	21.5
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	84.0	19.8
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	90.9	19.7
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	95.9	20.6

### What you see

The visual shows a table presenting disaggregated data for a selected setting of interest. By default, the table displays information about the setting, date, indicator, inequality dimension, population subgroup, subgroup estimate and subgroup population share (these can be changed under 'Options' in the selection menu on the left).

Setting	Date	Indicator name	Table columns	Dimension	Subgroup	Estimate	Population share
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	75.6	20.5	
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	91.0	20.9	
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	96.0	19.6	
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	97.0	20.3	
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 5 (richest)	99.2	18.7	
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	60.4	21.5	
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	84.0	19.8	
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	90.9	19.7	
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	95.3	20.6	

**Table pages** Previous 1 Next

## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 7 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 7** Selection menu for the 'Table' showing 'Disaggregated data' under 'Explore inequality'

Tab	Description
Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).



Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.

The screenshot shows a user interface for modifying data views. At the top, there are tabs for 'Selection' (with a dropdown arrow), 'Options' (with a gear icon), and 'Downloads' (with a download icon). Below these are sections for 'Table content' and 'Variables'. Under 'Variables', there is a search bar labeled 'Make a selection' and a list of filters: 'Setting' (selected), 'Date', 'Indicator name', 'Dimension', 'Subgroup', 'Estimate', and 'Population share'. Below the filters is a section for 'Number of decimals' with a slider ranging from 0 to 5, where '1' is selected. A horizontal line separates this from the 'Downloads' section.



Download the data displayed in the visual (as comma or tab separated text files).

The screenshot shows a user interface for downloading data. At the top, there are tabs for 'Selection' (with a dropdown arrow), 'Options' (with a gear icon), and 'Downloads' (with a download icon). Below these is a section for 'Data download'. It explains that the data will be downloaded as a text file with values separated by commas or tabs, suitable for text editors or spreadsheet packages. There is a 'Select field separator' section with 'Commas' selected and 'Tabs' as an option. At the bottom is a large blue button labeled 'Download data' with a download icon.

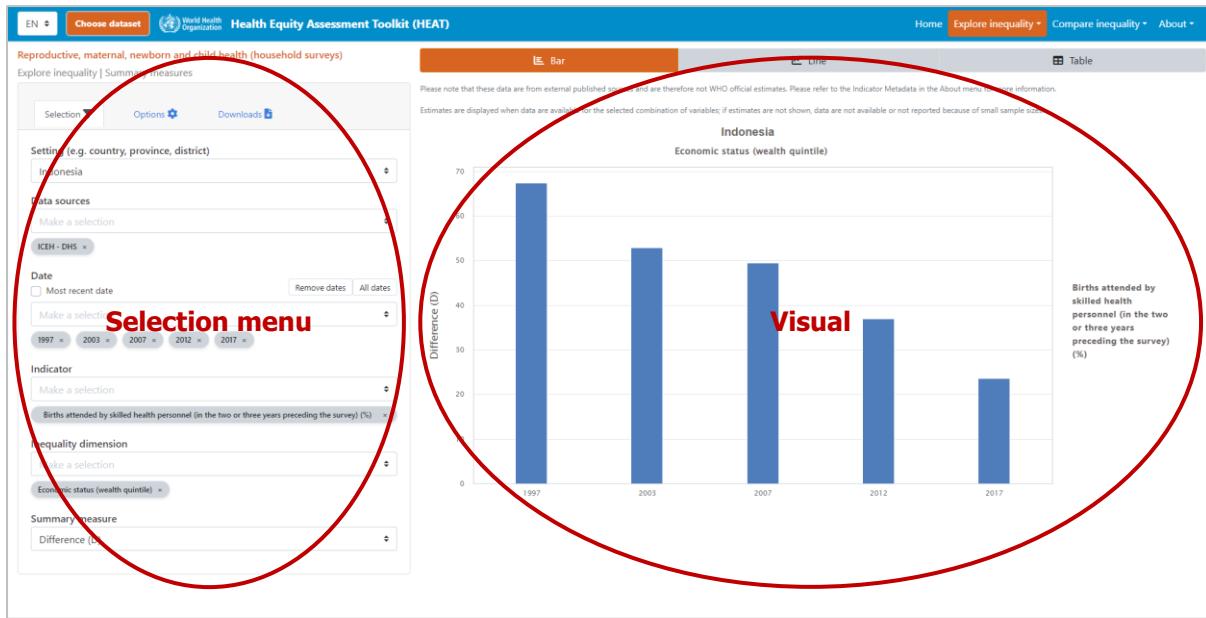
## 4.2 Summary measures

HEAT allows you to explore summary measures in different views; data are visualized in bar graphs, line graphs and tables. To access the different visualizations, click the tabs in the visualization menu across the top of the view. The selected view will be highlighted in orange.

The screenshot shows the top navigation bar of the HEAT interface. It includes language selection ('EN'), a 'Choose dataset' button, the 'World Health Organization' logo, and the title 'Health Equity Assessment Toolkit (HEAT)'. On the right are links for 'Home', 'Explore inequality' (highlighted in orange), 'Compare inequality', and 'About'. Below the main title are buttons for 'Reproductive, maternal, newborn and child health (household surveys)', 'Explore inequality', and 'Summary measures'. The visualization menu at the bottom includes tabs for 'Bar' (highlighted in orange), 'Line', and 'Table'.

### 4.2.1 Bar graph

In this view, summary measures are displayed in a bar graph. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.

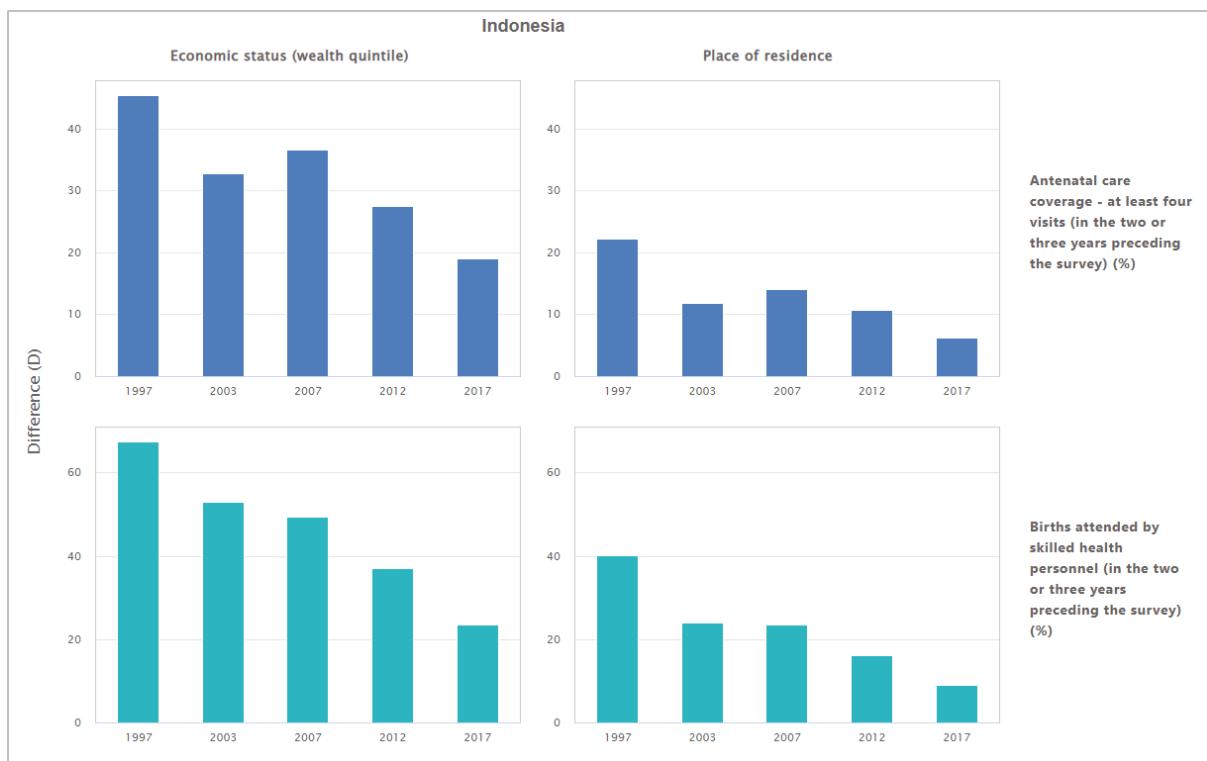


## What you see

The visual shows a bar graph presenting summary measure data (displayed on the y-axis) for a selected setting of interest. For each date (displayed on the x-axis), there is one coloured bar showing the value of the selected summary measure.



If more than one indicator and/or inequality dimension are selected at the same time, multiple graphs are shown – one for each indicator and/or dimension. You can choose to show up to five indicators and five dimensions simultaneously.



## How to explore

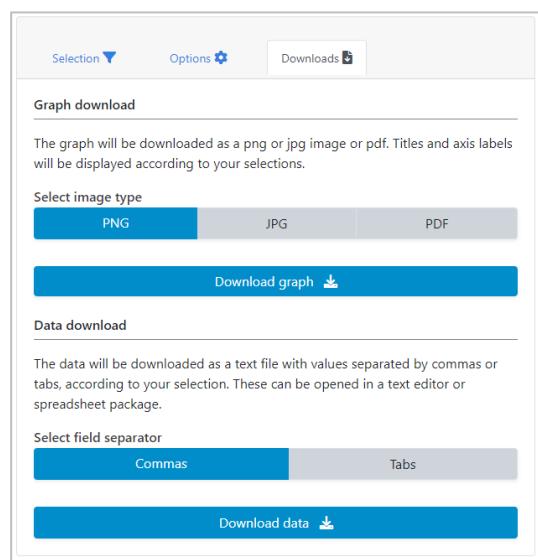
The selection menu on the left allows you to customize the results displayed in the visual. Table 8 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 8** Selection menu for the 'Bar graph' showing 'Summary measures' under 'Explore inequality'

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s), inequality dimension(s) and summary measure.
 Options	Use different options to modify your view. You can choose to show data labels and confidence intervals, and select custom axis ranges and graph titles.

## Downloads

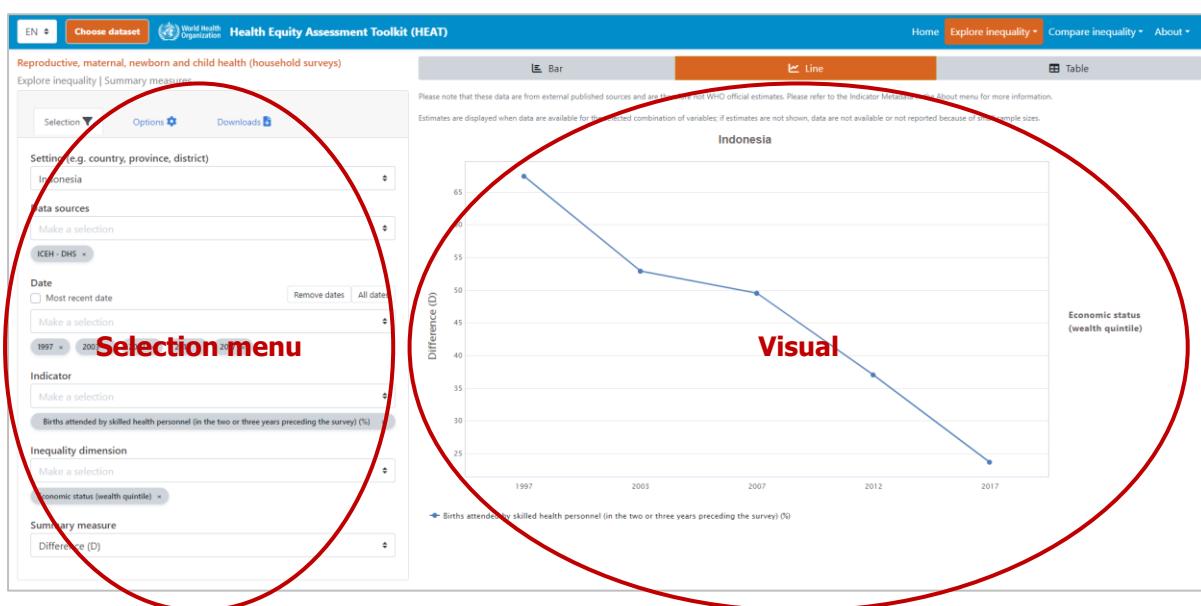
Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).



The screenshot shows a user interface for downloading results. At the top, there are buttons for 'Selection' (with a dropdown arrow), 'Options' (with a gear icon), and 'Downloads' (with a download icon). Below this is a section titled 'Graph download' with a note: 'The graph will be downloaded as a png or jpg image or pdf. Titles and axis labels will be displayed according to your selections.' It includes a 'Select image type' dropdown with 'PNG' (selected), 'JPG', and 'PDF' options, and a large blue 'Download graph' button with a download icon. Below this is a section titled 'Data download' with a note: 'The data will be downloaded as a text file with values separated by commas or tabs, according to your selection. These can be opened in a text editor or spreadsheet package.' It includes a 'Select field separator' dropdown with 'Commas' (selected) and 'Tabs' options, and a large blue 'Download data' button with a download icon.

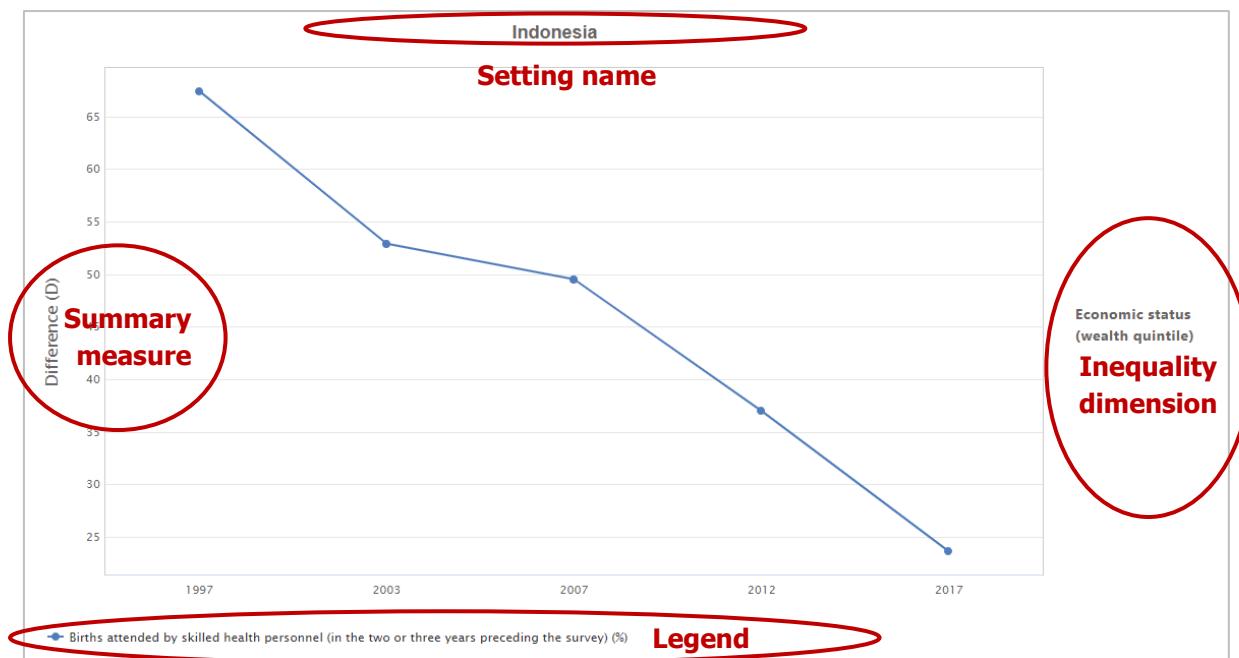
## 4.2.2 Line graph

In this view, summary measures are displayed in a line graph. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.

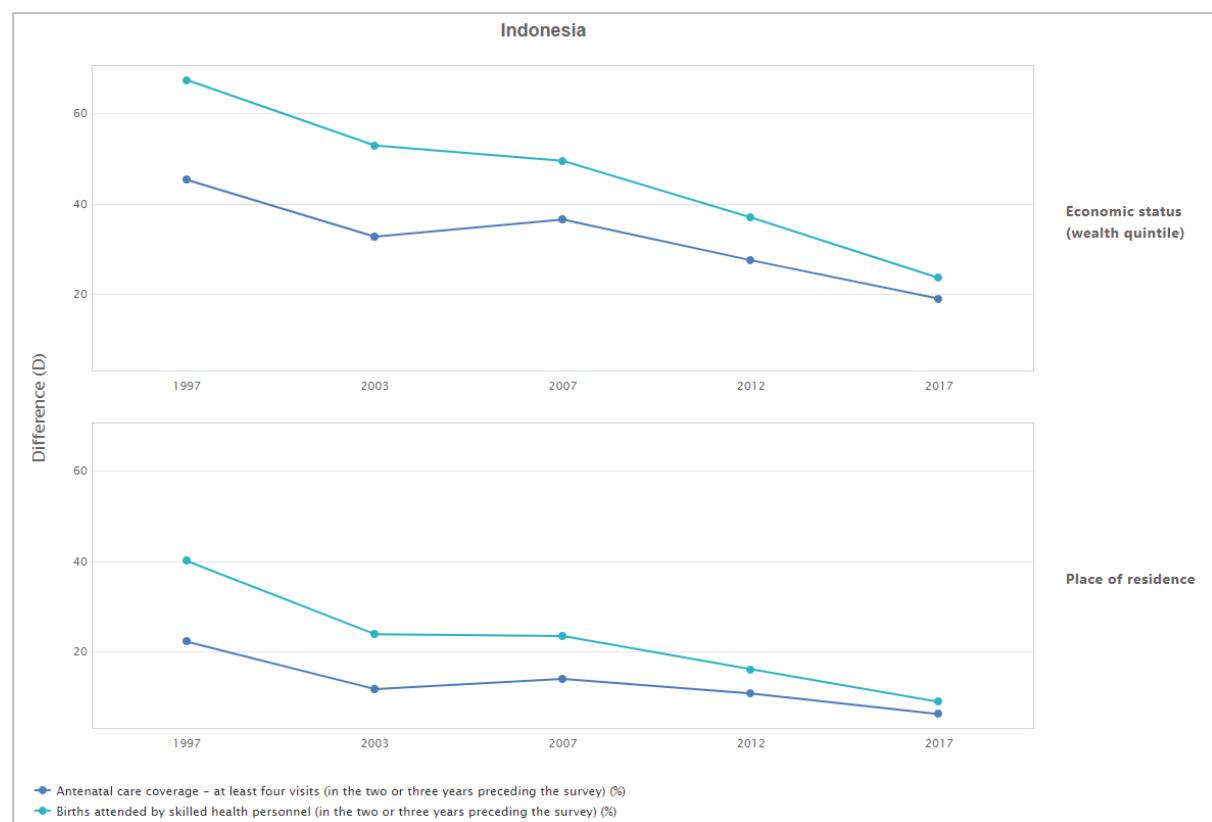


## What you see

The visual shows a line graph presenting summary measure data (displayed on the y-axis) for a selected setting of interest. For each date (displayed on the x-axis), there is one data point showing the value of the selected summary measure. Data points are connected by coloured lines.



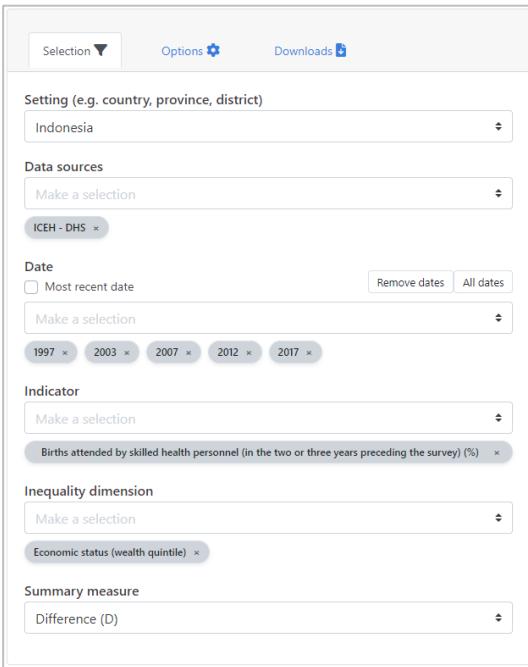
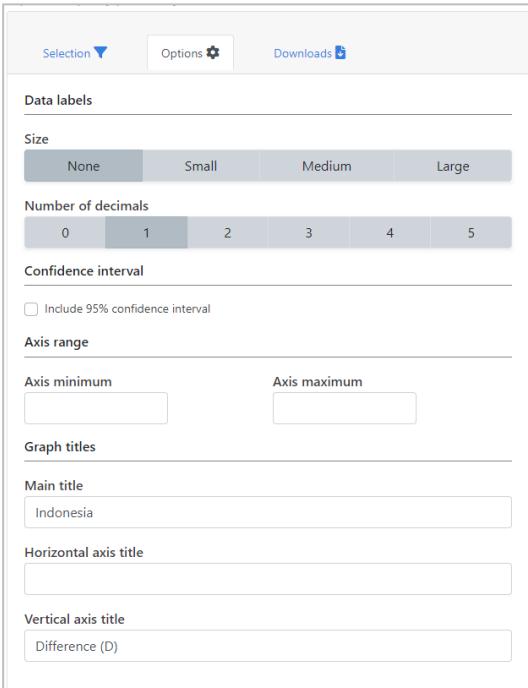
If more than one indicator and/or inequality dimension are selected at the same time, multiple graphs are shown – one for each dimension, with different indicators displayed in different coloured lines. You can choose to show up to five indicators and five dimensions simultaneously.



## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 9 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 9** Selection menu for the ‘Line graph’ showing ‘Summary measures’ under ‘Explore inequality’

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s), inequality dimension(s) and summary measure.
	
 Options	Use different options to modify your view. You can choose to show data labels and confidence intervals, and select custom axis ranges and graph titles.
	

**Downloads**

Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).

The screenshot shows a 'Graph download' section with 'PNG' selected and a 'Download graph' button. Below it is a 'Data download' section with 'Commas' selected and a 'Download data' button.

### 4.2.3 Table

In this view, summary measures are displayed in a table. The visual at the centre shows the table; the selection menu on the left allows you to customize the visual.

The screenshot shows the HEAT interface with a 'Selection menu' on the left and a 'Visual' (Table) on the right. The Selection menu includes sections for Setting, Date, Indicator, Inequality dimension, and Summary measure. The Visual displays a table of data for Indonesia across five years (2017, 2012, 2007, 2003, 1997) regarding births attended by skilled health personnel.

Setting	Date	Indicator name	Dimension	Summary measure name	Estimate
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	23.6
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	37.0
Indonesia	2007	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	49.5
Indonesia	2003	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	52.9
Indonesia	1997	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	67.4

### What you see

The visual shows a table presenting summary measures for a selected setting of interest. By default, the table displays information about the setting, date, indicator, inequality dimension, summary measure and summary measure estimate (these can be changed under 'Options' in the selection menu on the left).

Setting	Date	Indicator name	Table columns	Dimension	Summary measure name	Estimate
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)		23.6
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)		37.0
Indonesia	2007	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)		49.5
Indonesia	2003	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)		52.9
Indonesia	1997	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)		67.4

**Table pages** Previous 1 Next

## How to explore

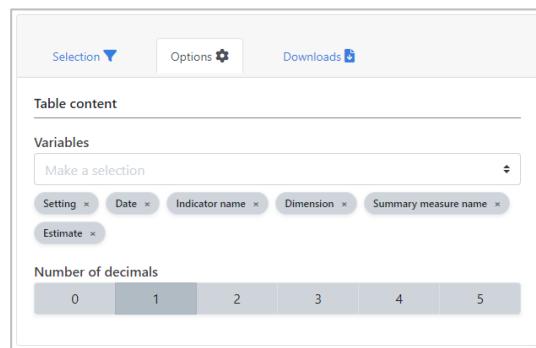
The selection menu on the left allows you to customize the results displayed in the visual. Table 10 provides a description of the three tabs that comprise the selection menu: selection, options and downloads.

**Table 10** Selection menu for the 'Table' showing 'Summary measures' under 'Explore inequality'

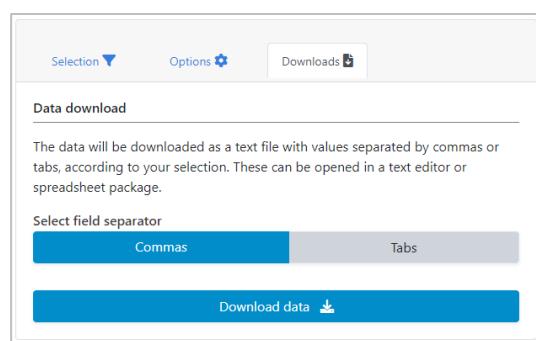
Tab	Description
Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).

 Options

Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.

 Downloads

Download the data displayed in the visual (as comma or tab separated text files).



## 5 Compare inequality

Under 'Compare inequality', you can **compare the situation in one setting of interest with the situation in other settings**. Benchmarking can be done using disaggregated data and summary measures that are visualized in different graphs and tables. To access the visualizations, hover over 'Compare inequality' in the navigation menu at the top and click 'Disaggregated data' or 'Summary measures'.



### TIPS for comparing inequality

- \* It is not recommended to compare inequality across settings if the number of subgroups differs between countries. For example, when looking at the situation by subnational/administrative region (such as provinces or districts), the number of regions may differ between countries. In this case, comparing inequality may lead to false conclusions: Inherently, inequality tends to be lower in settings with fewer regions. However, this may mask inequalities that exist between smaller geographic areas within those settings.

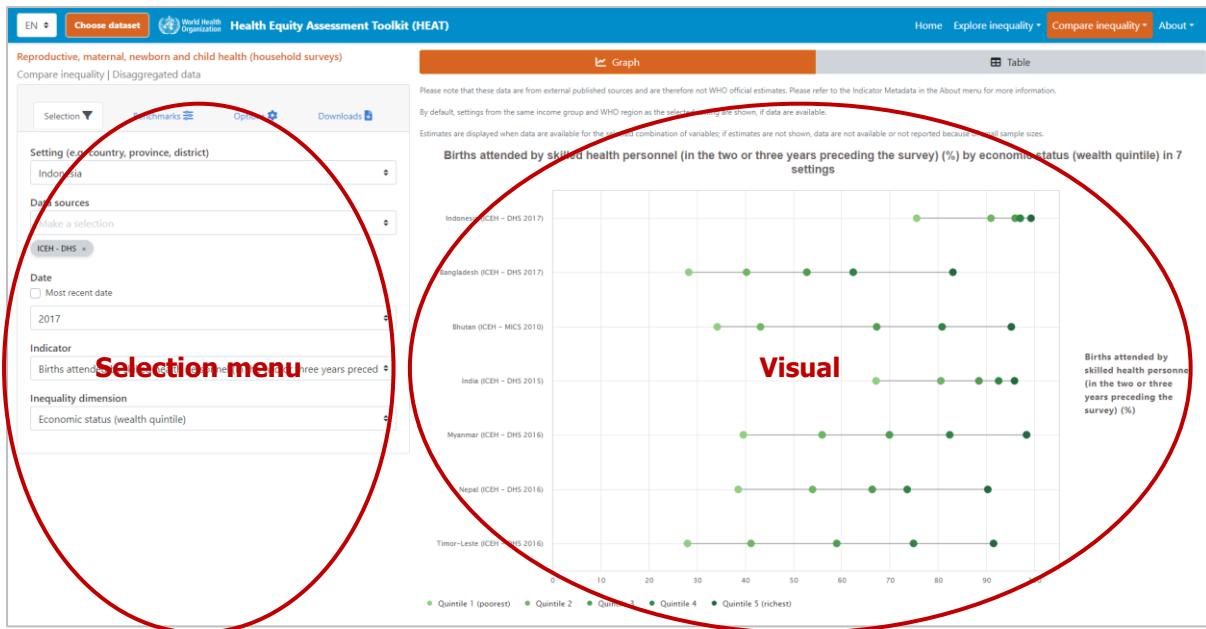
### 5.1 Disaggregated data

HEAT allows you to compare disaggregated data in different views; data are visualized in graphs and tables. To access the different visualizations, click the tabs in the visualization menu across the top of the view. The selected view will be highlighted in orange.



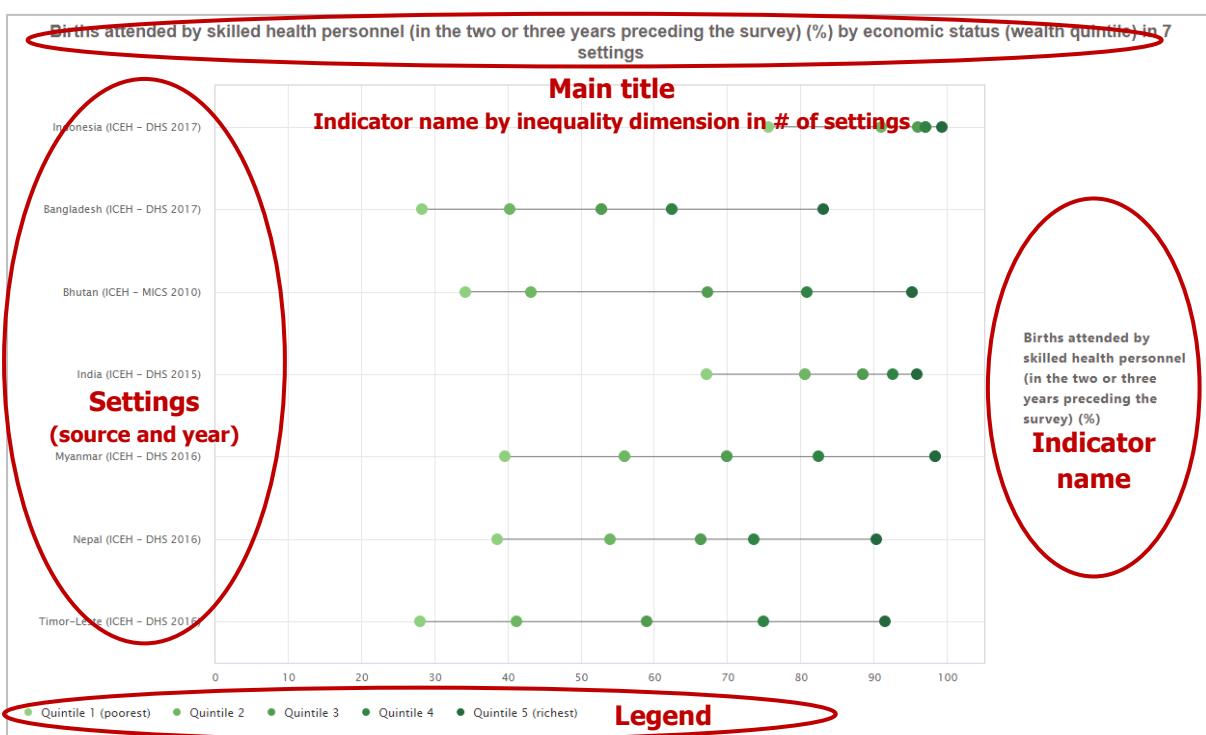
#### 5.1.1 Graph

In this view, disaggregated data are displayed in a horizontal line graph. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.



## What you see

The visual shows a horizontal line graph (also called [equiplot](#)) presenting disaggregated data (displayed on the x-axis) for a selected setting of interest and selected benchmark settings. For each setting (displayed on the y-axis), multiple coloured circles are shown – one for each population subgroup. Black horizontal lines indicate the difference between minimum and maximum subgroup estimates. The setting of interest is displayed at the top of the graph; benchmark settings are displayed in alphabetical order below the setting of interest. Note that for country-level data, by default, countries from the same country income group and WHO region as the selected country are shown, if data are available (these can be changed under ‘Benchmarks’ in the selection menu on the left).



## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 11 provides a description of the four tabs that comprise the selection menu: selection, benchmarks, options and downloads.

**Table 11** Selection menu for the 'Graph' showing 'Disaggregated data' under 'Compare inequality'

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator and inequality dimension.
 Benchmarks	Choose comparison settings for benchmarking. For country-level data, you can filter countries by country-income group and/or WHO region. You can also select the date for your benchmark settings, either using the most recent date or defining a custom date range (including a start and end date).

**⚙ Options**

Use different options to modify your view. You can choose custom axis ranges and graph titles.

The screenshot shows a user interface for modifying a visual. At the top, there are tabs: 'Selection ▾', 'Benchmarks ⚖', 'Options ⚙' (which is selected), and 'Downloads 📁'. Below these are sections for 'Axis range', 'Graph titles', 'Main title', 'Horizontal axis title', and 'Vertical axis title', each with input fields.

**⬇ Downloads**

Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).

The screenshot shows a user interface for downloading results. At the top, there are tabs: 'Selection ▾', 'Benchmarks ⚖', 'Options ⚙', and 'Downloads 📁'. Below these are sections for 'Graph download' and 'Data download'. Under 'Graph download', it says 'The graph will be downloaded as a png or jpg image or pdf. Titles and axis labels will be displayed according to your selections.' with options for 'Select image type' (PNG, JPG, PDF) and a 'Download graph' button. Under 'Data download', it says 'The data will be downloaded as a text file with values separated by commas or tabs, according to your selection. These can be opened in a text editor or spreadsheet package.' with options for 'Select field separator' (Commas, Tabs) and a 'Download data' button.

**5.1.2 ⏱ Table**

In this view, disaggregated data are displayed in a table. The visual at the centre shows the table; the selection menu on the left allows you to customize the visual.

The screenshot shows the HEAT interface with a red oval highlighting the left sidebar and the main table area. A red arrow points from the 'Selection menu' to the table, labeled 'Visual'.

**Selection menu**

- Setting (e.g. country, province, district): Indonesia
- Data sources: ICH - DHS
- Date: 2017
- Indicator: Births attended by skilled health personnel (in the two or three years preceding the survey) (%)
- Inequality dimension: Economic status (wealth quintile)

**Table**

Please note that these data are from external published sources and are therefore not WHO official estimates. Please refer to the Indicator Metadata in the About menu for more information.

By default, settings from the same income group and WHO region as the selected setting are shown, if data are available.

Estimates are displayed when data are available for the selected combination of variables; if estimates are not shown, data are not available or not reported because of small sample sizes.

Setting	Date	Indicator name	Dimension	Subgroup	Estimate	Population share
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	75.6	20.5
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	91.0	20.9
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	96.0	19.6
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	97.0	20.3
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 5 (richest)	99.2	18.7
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	28.2	20.7
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	40.2	20.7
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	52.8	19.1
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	62.4	20.1

Previous  Next

## What you see

The visual shows a table presenting disaggregated data for a selected setting of interest and selected benchmark settings. By default, the table displays information about the setting, date, indicator, inequality dimension, population subgroup, subgroup estimate and subgroup population share (these can be changed under 'Options' in the selection menu on the left). The setting of interest is displayed at the top of the table; benchmark settings are displayed in alphabetical order below the setting of interest. Note that for country-level data, by default, countries from the same country income group and WHO region as the selected country are shown, if data are available (these can be changed under 'Benchmarks' in the selection menu on the left).

The screenshot shows the HEAT interface with a red oval highlighting the search field and the table columns header. Another red oval highlights the table pages footer.

**Search field**

**Table columns**

Setting	Date	Indicator name	Dimension	Subgroup	Estimate	Population share
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	75.6	20.5
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	91.0	20.9
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	96.0	19.6
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	97.0	20.3
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 5 (richest)	99.2	18.7
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	28.2	20.7
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 2	40.2	20.7
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 3	52.8	19.1
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Quintile 4	62.4	20.1

**Table pages**

Previous  Next

## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 12 provides a description of the four tabs that comprise the selection menu: selection, benchmarks, options and downloads.

**Table 12** Selection menu for the ‘Table’ showing ‘Disaggregated data’ under ‘Compare inequality’

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator(s) and inequality dimension(s).
 Benchmarks	Choose comparison settings for benchmarking. For country-level data, you can filter countries by country-income group and/or WHO region. You can also select the date for your benchmark settings, either using the most recent date or defining a custom date range (including a start and end date).



Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.

The screenshot shows a user interface for modifying data views. At the top, there are tabs for 'Selection' (with a dropdown arrow), 'Benchmarks' (with a gear icon), 'Options' (with a gear icon), and 'Downloads' (with a download icon). Below these are sections for 'Table content' and 'Variables'. A search bar says 'Make a selection' with filters for 'Setting', 'Date', 'Indicator name', 'Dimension', 'Subgroup', and 'Estimate', plus a 'Population share' filter. A 'Number of decimals' slider is set to 1. There are also buttons for 0, 2, 3, 4, and 5.



Download the data displayed in the visual (as comma or tab separated text files).

The screenshot shows a user interface for downloading data. At the top, there are tabs for 'Selection' (with a dropdown arrow), 'Benchmarks' (with a gear icon), 'Options' (with a gear icon), and 'Downloads' (with a download icon). Below these is a section for 'Data download' with a note: 'The data will be downloaded as a text file with values separated by commas or tabs, according to your selection. These can be opened in a text editor or spreadsheet package.' It includes a 'Select field separator' section with 'Commas' selected and 'Tabs' as an option, and a large blue 'Download data' button with a download icon.

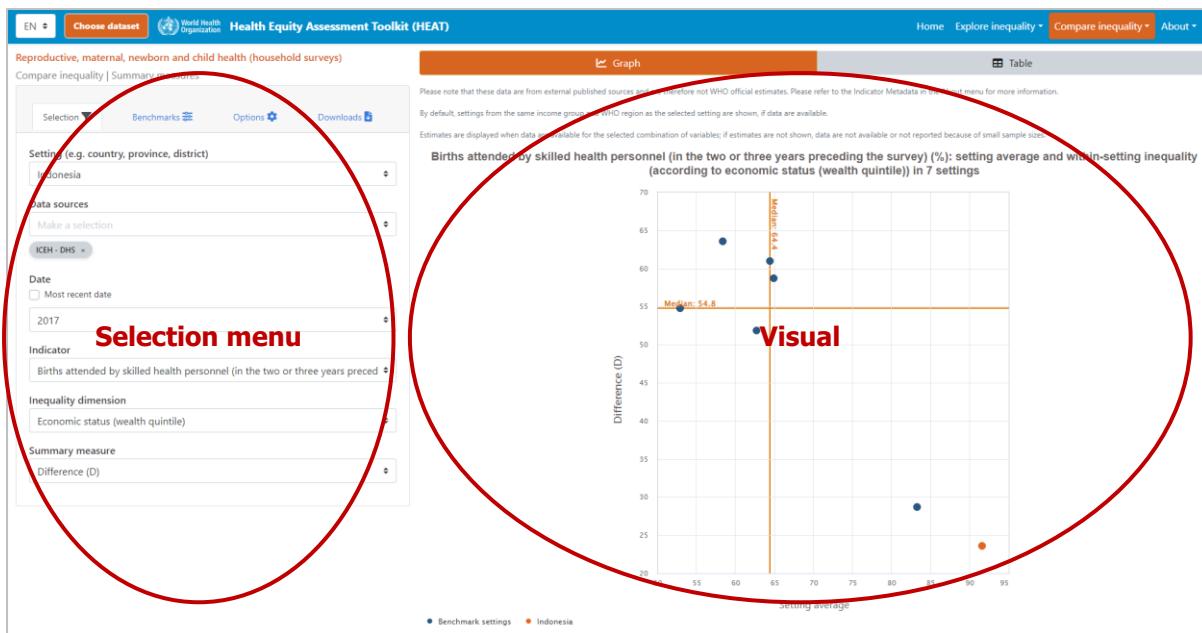
## 5.2 Summary measures

HEAT allows you to compare summary measures in different views; data are visualized in graphs and tables. To access the different visualizations, click the tabs in the visualization menu across the top of the view. The selected view will be highlighted in orange.

The screenshot shows the top navigation bar of the HEAT interface. It includes language selection ('EN'), a 'Choose dataset' button, the 'World Health Organization' logo, and the title 'Health Equity Assessment Toolkit (HEAT)'. On the right, there are links for 'Home', 'Explore inequality', 'Compare inequality' (which is highlighted in orange), and 'About'. Below the main title, there are links for 'Reproductive, maternal, newborn and child health (household surveys)' and 'Compare inequality | Summary measures'. At the bottom of the bar are buttons for 'Graph' (orange) and 'Table'.

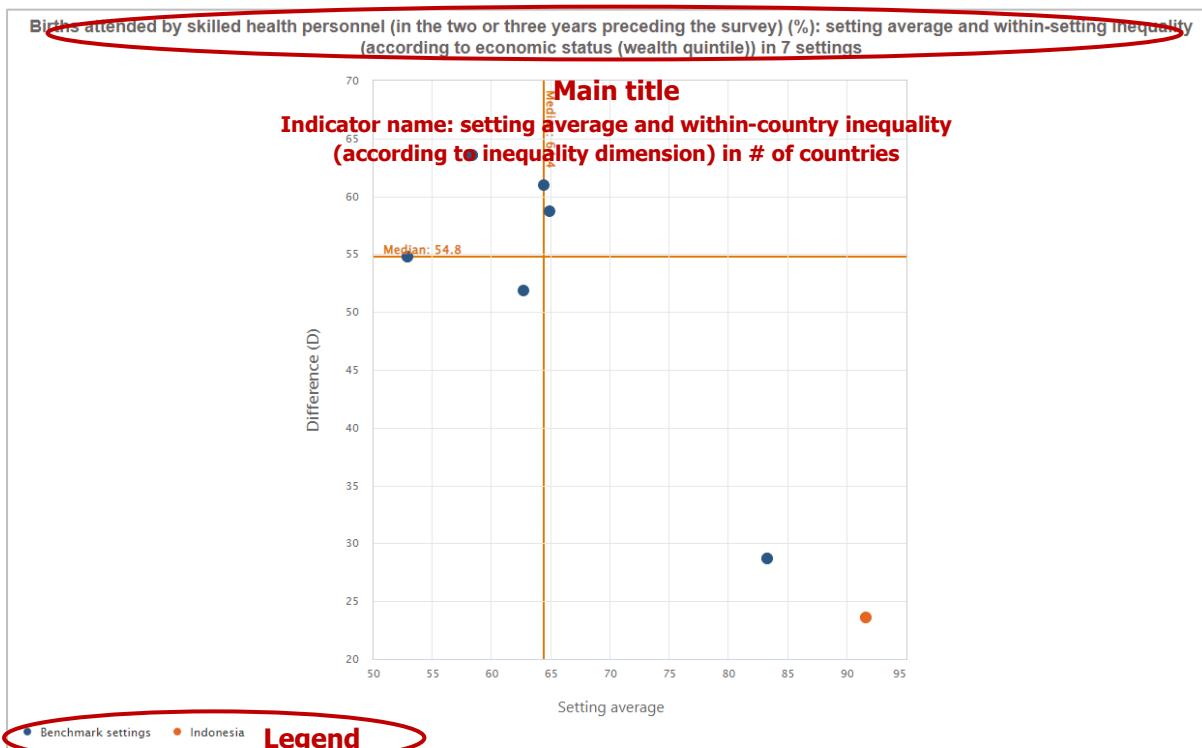
### 5.2.1 Graph

In this view, summary measures are displayed in a scatterplot. The visual at the centre shows the graph; the selection menu on the left allows you to customize the visual.



## What you see

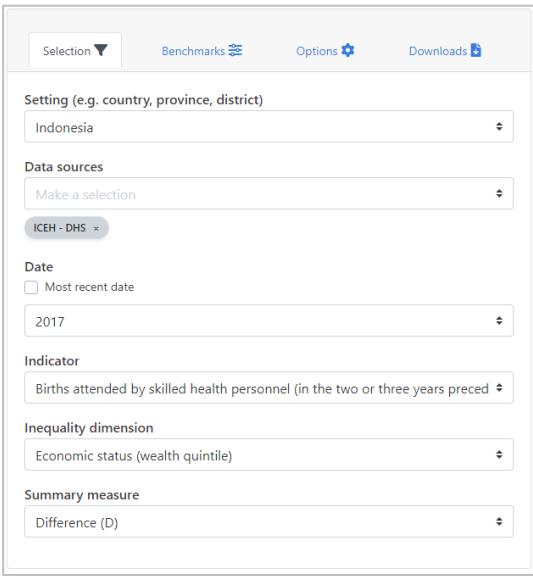
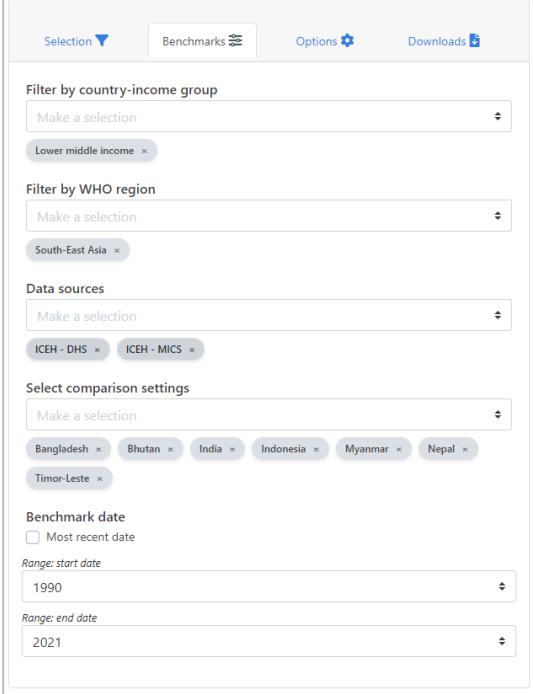
The visual shows a scatterplot presenting the setting average (displayed on the x-axis) and the level of within-setting inequality as measured by the selected summary measure (displayed on the y-axis). Each setting is represented by one coloured shape: benchmark settings are displayed in blue, and the setting of interest is highlighted in orange. Note that for country-level data, by default, countries from the same country income group and WHO region as the selected country are shown, if data are available (these can be changed under 'Benchmarks' in the selection menu on the left).



## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 13 provides a description of the four tabs that comprise the selection menu: selection, benchmarks, options and downloads.

**Table 13** Selection menu for the ‘Graph’ showing ‘Summary measures’ under ‘Compare inequality’

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator, inequality dimension and summary measure.
	
 Benchmarks	Choose comparison settings for benchmarking. For country-level data, you can filter countries by country-income group and/or WHO region. You can also select the date for your benchmark settings, either using the most recent date or defining a custom date range (including a start and end date).
	

**⚙ Options**

Use different options to modify your view. You can select different formats and sizes for your data points, and choose custom axis ranges and graph titles.

The screenshot shows a user interface for modifying graph styles. At the top, there are tabs for 'Selection', 'Benchmarks', 'Options' (which is selected), and 'Downloads'. Below the tabs are sections for 'Graph style', 'Format' (set to 'Points'), 'Size' (set to 'Medium'), 'Axis range' (with fields for 'Horizontal axis minimum' and 'Horizontal axis maximum'), 'Graph titles' (with fields for 'Main title', 'Horizontal axis title', and 'Vertical axis title'), and a preview area showing a graph with the specified settings.

**⬇ Downloads**

Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).

The screenshot shows a user interface for downloading results. At the top, there are tabs for 'Selection', 'Benchmarks', 'Options', and 'Downloads' (selected). Below the tabs are sections for 'Graph download' (describing the download of a png or jpg image or pdf), 'Select image type' (set to 'PNG'), and a large blue 'Download graph' button. Below that is a section for 'Data download' (describing the download of a text file with values separated by commas or tabs), 'Select field separator' (set to 'Commas'), and a blue 'Download data' button.

**5.2.2 ⚡ Table**

In this view, summary measures are displayed in a table. The visual at the centre shows the table; the selection menu on the left allows you to customize the visual.

The screenshot shows the HEAT interface. On the left, a 'Selection menu' is displayed with various filters: Setting (Indonesia), Date (2017), Indicator (Births attended by skilled health personnel (in the two or three years preceding the survey) (%)), Inequality dimension (Economic status (wealth quintile)), and Summary measure (Difference (D)). On the right, a table titled 'Visual' displays data for Indonesia, Bangladesh, Bhutan, India, Myanmar, Nepal, and Timor-Leste. The table columns include Setting, Date, Indicator name, Dimension, Summary measure name, and Estimate. A red circle highlights the 'Selection menu' area.

Setting	Date	Indicator name	Dimension	Summary measure name	Estimate
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	23.6
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	54.8
Bhutan	2010	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	61.0
India	2015	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	28.7
Myanmar	2016	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	58.7
Nepal	2016	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	51.8
Timor-Leste	2016	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	63.5

## What you see

The visual shows a table presenting summary measure data for a selected setting of interest and selected benchmark settings. By default, the table displays information about the setting, date, indicator, inequality dimension, summary measure and summary measure estimate (these can be changed under 'Options' in the selection menu on the left). The setting of interest is displayed at the top of the table; benchmark settings are displayed in alphabetical order below the setting of interest. Note that for country-level data, by default, countries from the same country income group and WHO region as the selected country are shown, if data are available (these can be changed under 'Benchmarks' in the selection menu on the left).

The screenshot shows a table with the following columns: Setting, Date, Indicator name, Table columns, Dimension, Summary measure name, and Estimate. The table rows correspond to the data shown in the previous screenshot. A red circle highlights the 'Table columns' header, another highlights the search field, and a third highlights the 'Table pages' navigation.

Setting	Date	Indicator name	Table columns	Dimension	Summary measure name	Estimate
Indonesia	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	23.6	
Bangladesh	2017	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	54.8	
Bhutan	2010	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	61.0	
India	2015	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	28.7	
Myanmar	2016	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	58.7	
Nepal	2016	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	51.8	
Timor-Leste	2016	Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	Economic status (wealth quintile)	Difference (D)	63.5	

## How to explore

The selection menu on the left allows you to customize the results displayed in the visual. Table 14 provides a description of the four tabs that comprise the selection menu: selection, benchmarks, options and downloads.

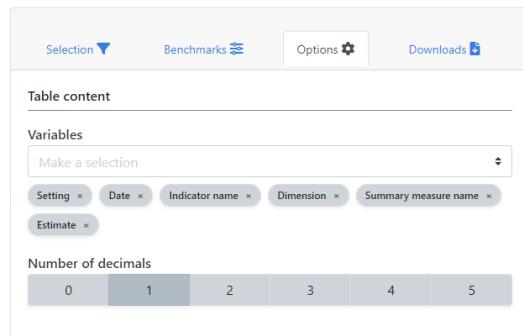
**Table 14** Selection menu for the ‘Table’ showing ‘Summary measures’ under ‘Compare inequality’

Tab	Description
 Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator(s), inequality dimension(s) and summary measure(s).
 Benchmarks	Choose comparison settings for benchmarking. For country-level data, you can filter countries by country-income group and/or WHO region. You can also select the date for your benchmark settings, either using the most recent date or defining a custom date range (including a start and end date).

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**⚙️ Options**

Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.

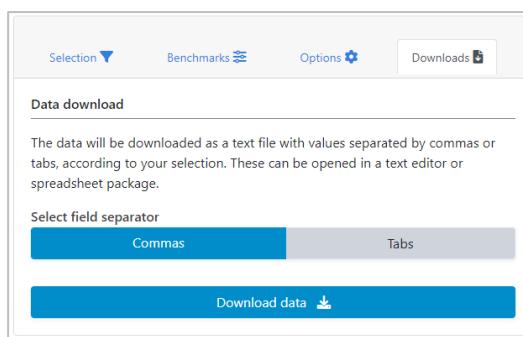


The screenshot shows the 'Options' tab selected in the top navigation bar. Below it, there's a 'Table content' section with a 'Variables' dropdown containing 'Setting', 'Date', 'Indicator name', 'Dimension', and 'Summary measure name'. A 'Number of decimals' slider is set to 1. There are also 'Selection', 'Benchmarks', and 'Downloads' tabs at the top.

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**⬇️ Downloads**

Download the data displayed in the visual (as comma or tab separated text files).



The screenshot shows the 'Downloads' tab selected. It has a 'Data download' section with a note about the file format and a 'Select field separator' section where 'Commas' is chosen over 'Tabs'. A large blue 'Download data' button is at the bottom.

