

USER MANUAL

Health Equity Assessment Toolkit (HEAT)

BUILT-IN DATABASE EDITION, VERSION 6.1



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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*.

5 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)¹. The latest version of HEAT is available at: <u>https://www.who.int/data/inequality-monitor/assessment_toolkit</u>.

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**.

EN ¢	Choose dataset	(World Health Organization	Health Equit	y Assessment To	olkit (UEAT)		Home	Explore inequality -	Compare inequality	- Determinan	s About -
					Choose dataset	Tutorial					
				۱	Choose dataset Currently selected dataset Reproductive, maternal, newborn and child health (household surveys) Sustainable Development Goals WHG Global Health Observatory (GHO) COVID-19 Reproductive, maternal and child health Immunization HV, tuberculosis and malarla Adult health	+ + + + +	S	sessr	nent	Тоо	• Ikit
					Health care	+				(HE	ΔΤ)
					Burden of disease	+					~ ,
					Disability	+			BUILT-IN	DATABAS	E EDITION
					Migration	+		This built-in d	atabase edition of the HEA		
					Environmental health	+			Health Inequ	ality Data Reposito	y (2023 update).
					WHO General Programme of Work	+					
					Health determinants	+					
	1				Please note that some datasets listed here are from externally published sources and are th not WHO official estimates. Please refer to the Indicator Metadata in the About menu for information. By clicking OK, you are accepting the Terms of Use and Software License Agreement						

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

¹ Please note that Internet Explorer is not currently supported.

information about the sources and indicators for each dataset can be found in the Indicator Metadata under the About menu.



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**.

EN ¢	Choose dataset	Sustainable Development Goals +	Home Explore inequality - Compare inequality - Determinants About -
		WHO Global Health Observatory (GHO) +	
		COVID-19 +	
		Reproductive, maternal and child health -	
		Reproductive, maternal, newborn and child health (household surveys)	
		 Reproductive, maternal, newborn and child health (WHO Global Health Observatory) 	
		Child malnutrition (UNICEF/WHQ/World Bank)	
		O Under-five mortality (UN IGME)	
		Subnational under-five mortality - first administrative level (UN IGME)	
		Subnational under-five mortality - second administrative level (UN IGME)	accoment Teelki
		 Subnational anaemia prevalence geospatial estimates (IHME) 	Assessment Toolki
		 Subnational breastfeeding prevalence geospatial estimates (IHME) 	
		 Subnational diarrhoea prevalence, incidence and mortality geospatial estimates (IHME) 	(HEAT)
		Immunization +	BUILT-IN DATABASE EDITIO
		HIV, tuberculosis and malaria +	This built-in database edition of the HEAT software uses data from the Wi
		Adult health +	Health Inequality Data Repository (2023 updat
		Health care +	\sim
		Burden of disease +	
	-	Disability +	
		Migration +	
		Environmental health +	
		WHO General Programme of Work +	
		Health determinants +	
		Please note that some datasets listed here are from externally published sources and are therefore not WHO official estimates. Please refer to the indicator Metadata in the About menu for more information. By clicking OK, you are accepting the Terms of Use and Software License Agreement OK	



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.

EN ¢	(World Health Health Equity Assessment To	SILIF (LIEAT)						About 👻
		Choose dataset	Tutorial	1				
		Currently selected dataset Reproductive, maternal, newborn and child health (household surveys)						
		Sustainable Development Goals	+					
		WHO Global Health Observatory (GHO)	+					
		COVID-19	+					
		Reproductive, maternal and child health	+					
		Immunization	+					
		HIV, tuberculosis and malaria	+	G	68661	nent	Tool	kit
		Adult health	+		50351	nent	1001	NIC
		Health care	+			(HE/	T)
		Burden of disease	+			l l		1)
		Disability	+			BUILT-IN	DATABASE	EDITION
		Migration	+		This built-in	latabase edition of the HEAT		
		Environmental health	+			Health Inequali	ty Data Repository (2023 update).
		WHO General Programme of Work	+					
		Health determinants	+					
ľ		Please note that some datasets listed here are from externally published sources and are th not WHO official estimates. Please refer to the Indicator Metadata in the About menu for information. Cancel OK						

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'.

You can also explore the association of a given health indicator (setting average) with a determinant indicator in various settings using the **Determinants** component.

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 three 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.
- Determinants allows you to explore the association of the health indicator of interest with a
 determinant indicator in multiple settings.

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', 'Compare inequality' or 'Determinants' 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.

Visualization type	Description
I Horizontal line graph	Disaggregated data are presented in horizontal line graphs (also called <u>equiplots</u>). 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

Table 1 Visualization types





 $\textbf{H} \ \textbf{Vertical bar graph} \ \textbf{Sorgergated data and summary measures are presented in vertical bar graphs. For each date (displayed on the x-axis), there are one or more column bars: for disaggregated data, there are multiple bars – one for each population subgroup; for summary measures there is one bar showing the selected summary measures. <math display="block"> \textbf{Vertical bar graph} \ \textbf{Vertical bar$







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.



Scatterplot with regression line

Scatterplots showing setting average (on the x-axis) for a specified determinant and setting average (on the y-axis) for a health indicator of interest, including a linear regression line. Each setting is represented by one coloured circle: benchmark settings are displayed in blue, and the setting of interest is highlighted in orange.



Table

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

Setting	Year 🕴	Indicator name	¢.)	Dimension	Subgrou	p 0	Estimate	Population share
Indonesia	2012	Births attended by skilled health personnel (in the two or three years preceding the survey) $(\%)$		Economic status	Quintile (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) $\left(\%\right)$		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 (richest)	5	97.4	18.3
Setting	Year	Indicator name		Dimer	nsion 🕴	Summai name	ry measure	Estimate
		Births attended by skilled health personnel (in the two or three years	_					
Indonesia	2012	preceding the survey) (%)		status	omic	Differen	ce (D)	37.0
Indonesia Indonesia	2012	preceding the survey) (%) Births attended by skilled health personnel (in the two or three years		Leone	omic	Differen Differen		37.0 49.5
		preceding the survey) (%) Births attended by skilled health personnel (in the two or three years preceding the survey) (%) Births attended by skilled health personnel (in the two or three years		status	omic		ce (D)	

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.

Selection	Options	Downloads	

Selection	Options	-	
T	\$	E	

- 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.





• • • •	Selection	Benchmark	Options	Downloads
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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.

Selector type	Navigation	
Dropdown menu	Select a single item, such as your setting of interest.	
(single select)	Setting (e.g. country, province, district)	
	Indonesia	م الم
	Click the box to see all the available settings and make your se	ection.
	Setting (e.g. country, province, district)	
	Indonesia	÷
	India	^
	Indonesia	
	Iraq	
	Jamaica	
	Jordan	- 5
	Kazakhstan	
	Kenya 🖑	
	Kyrgyzstan	
	Lao People's Democratic Republic	
	Lesotho .	•

Table 2 Selector types

	Setting (e.g. country, province, district)	
	Ken +	
	Kenya 🖑	* *
)ropdown menu	Select one or more items, such as your indicator(s) of interest.	
multi-select)	Indicator Make a selection	
	Births attended by skilled health personnel (in the two or three years preceding the survey) (%) $$ $$ $$	
	Click the box to see all the available indicators and make your selection	on
	Adolescent fertility rate (births per 1000 women aged 15-19 years)	
	Antenatal care coverage - at least four visits (in the five years preceding the survey) (%)	
	Antenatal care coverage - at least four visits (in the two or three years preceding the survey) (%)	
	Antenatal care coverage - at least one visit (in the five years preceding the survey) (%)	
	Antenatal care coverage - at least one visit (in the two or three years preceding the survey) (%)	
	BCG immunization coverage among one-year-olds (%)	
	Births attended by skilled health personnel (in the five years preceding	
	Make a selection +	Ц
	Births attended by skilled health personnel (in the two or three years preceding the survey) (%) $$ $$ $$ $$ $$ $$	
	Alternatively, search for a specific indicator by typing (part of) the nation of the indicator you are looking for and make your selection.	m
	Alternatively, search for a specific indicator by typing (part of) the name of the indicator you are looking for and make your selection.	m
	Alternatively, search for a specific indicator by typing (part of) the national of the indicator you are looking for and make your selection.	m
	Alternatively, search for a specific indicator by typing (part of) the national of the indicator you are looking for and make your selection. Make a calertion 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 four visits (in the five years preceding the survey) (%) Antenatal care coverage - at least one visit (in the five years preceding the survey) (%)	m
	Alternatively, search for a specific indicator by typing (part of) the national specific indicator by typing (part of) the nating (part of) the national specific indicator by	m
	Alternatively, search for a specific indicator by typing (part of) the national of the indicator you are looking for and make your selection. Make a colortion 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 five years preceding the survey) (%) Antenatal care coverage - at least one visit (in the five years preceding the survey) (%)	m
	Alternatively, search for a specific indicator by typing (part of) the national of the indicator you are looking for and make your selection. Make a colortion 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 five years preceding the survey) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%)	
	Alternatively, search for a specific indicator by typing (part of) the national of the indicator you are looking for and make your selection. Make a calection 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 five years preceding the survey) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (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) (%) Antenatal care coverage - at least one visit (in the two or three years preceding the survey) (%)	m
	Alternatively, search for a specific indicator by typing (part of) the national sector of the indicator you are looking for and make your selection.	m

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 irresponsive. To make further changes, first remove selected items and then continue add new ones.

ndicator	
	ŧ
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.				
	Axis range				
	Axis minimum	Axis maximum			
	Click inside the box and enter a number.				
	Axis range				
	Axis minimum	Axis maximum			
	Alternatively, use the arrows to select a number.				
	Axis range Axis minimum Axis maximum				
	1 75				
Text input	Enter information, such as h	orizontal and vertical axis titles.			
(empty)	Horizontal axis title				
	Vertical axis title				
	Click inside the box and enter your text.				
	Horizontal axis title Estimate				
	Vertical axis title				

Text input (pre-filled)	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).		
	Main title		
	Indonesia (DHS 2012)		
	Click inside the box and delete, alter or replace the main title with the text of your choice.		
	Main title		
	Inequality in Indonesia (DHS 2012)		
Checkbox	Limit the view, e.g. to the most recent date, or include information, such as 95% confidence intervals.		
	Date Remove dates All dates		
	Most recent date Remove dates All dates		
	Make a selection 🗘		
	2010 × 2015 ×		
	Confidence intervals		
	Include 95% confidence intervals		
	Check the box to limit the view to the most recent year or include 95%		
	confidence intervals.		
	Date Image: Most recent date		
	Confidence intervals		
	Include 95% confidence intervals		
Radio button	Choose between different options, such as the sort order of your data.		
	Sort order		
	 Ascending Descending 		
	Click the sort order of your choice to rearrange data in ascending or descending order.		
	Sort order		
	Ascending		
	Omp escending		
Switch button	Switch an item on or off, such as reference lines in graphs. Reference lines		
	 Setting average Median 		
	Click the switch to display setting average and/or median lines.		

	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.	1	
	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.



For `**Determinants'**, there are two types of tooltips, the first includes information about the setting, health indicator, determinant indicator, sources as well as the setting average for each indicator.

The second tooltip comes from the regression line that shows the regression equation, coefficients, R-squared and P-value.

3.3 Learning more

Indicator estimate =	89.037 + -1.302 * Determinant estimate
R-squared: 0.365	
P-value: 0.113	

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

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.

EN Choose dataset Choose da	oolkit (HEAT)		Home Explore i	inequality - Compare inequa	ality - Determinants About -
Reproductive, maternal, newborn and child health (household surveys) Explore inequality Disaggregated data	너 Horizontal line	៤ Vertical bar	🗉 Horizontal bar	🌐 Map	I Table

4 Explore inequality

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 <u>equiplot</u>) 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'

Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).	Selection Options Setting (e.g. country, province, district) Indonesia Data sources Make a selection (CEH - DHS ×) Date Most recent date Make a selection \$997 × 2003 × 2007 × 2012 × 2017 × Indicator Make a selection \$ Births attended by skilled health personnel (in the two or three years preceding the survey) (%) × Inequality dimension Make a selection \$ Ceconomic status (wealth quintile) ×
Options	Use different options to modify your view. You can choose custom axis ranges and graph titles.	Selection Options Downloads Axis range Axis minimum Axis maximum Graph titles Main title Indonesia Horizontal axis title 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).	Selection Options Downloads Graph download Graph ownloaded as a png or jpg image or pdf. Titles and axis labels will be displayed according to your selections. Select image type PNG PDF Download graph ▲ Data download The data will be downloaded as a text file with values separated by commas or tass, according to your selection. These can be opened in a text editor or spreadsheet package. Select field separator Tabs Download data ▲

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'

|--|

visual intere indica	Select the data displayed in the visual, including your setting of nterest, data source(s), date(s), ndicator(s) and inequality dimension(s).	Selection V Options C Downloads S Setting (e.g. country, province, district) Indonesia	•
		Data sources	
		Make a selection	\$
		ICEH - DHS ×	
		Date	
		Most recent date	Remove dates All dates
		Make a selection	\$
		1997 × 2003 × 2007 × 2012 × 2017 ×	
		Indicator	
		Make a selection	÷
		Births attended by skilled health personnel (in the two or three years j	preceding the survey) (%) ×
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Inequality dimension	\$
		Make a selection	
		Economic status (wealth quintile) ×	
Coptions 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.	Selection Options Downloads Data labels Size None Small Medium Number of decimals 0 1 2 3 Confidence interval Axis range Axis minimum Axis maximum Graph titles Main title Indonesia Horizontal axis title Vertical axis title	4 5

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).	Selection Options 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		
		Download graph 🛓		
		Data download		
		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.		
		Select field separator		
		Commas Tabs		
		Download data 🛓		

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:
 - o Difference between percentile 80 and percentile 20
 - Ratio of percentile 80 to percentile 20
 - \circ $\;$ 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:
 - \circ $\,$ Difference between percentile 90 and percentile 10 $\,$
 - Ratio of percentile 90 to percentile 10
 - $_{\odot}$ $\,$ 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
 - $_{\odot}$ $\,$ Difference between mean estimates in the top 5% and the bottom 5%
 - \circ $\,$ 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	
T Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date and indicator(s).	Selection Options Downloads Summary measures Setting (e.g. country, province, district) Indonesia • Data sources • Make a selection • CEH: DHS × • Data • Most recent date • 2017 • Indicator • Births attended by skilled health personnel (in the two or three years preceding the survey) (%) × Inequality dimension • Subnational region •

Coptions	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.	Stetcton Options Downloads Summary measures Data labels Size Nome Small Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval Include 95% confidence interval Reference lines
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).	Selection ▼ Options ◆ Downloads ● Summary measures ● 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 PNC JPG PDF Download graph ▲ Data download Data 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. Select field separator Tabs Download data ▲
Summary measures	View specific summary measures calculations. Specific difference and ratio measures are calculated for inequality dimensions with more than 30 subgroups.	Selection Options Downloads Summary measures Difference and ratio measures are calculated for dimensions with 30 subgroups or more. If estimates are not available, then summary measures cannot be calculated. Births attended by skilled health personnel (in the two or three years preceding the survey) (%). 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 mer	nu for the 'Man' showing	g `Disaggregated data' un	ler 'Explore inequality'
	ind for the flup billotting		

Tab	Description	
Y Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).	Selection Options Setting (e.g. country, province, district) Indonesia Data sources Make a selection Indicator Births attended by skilled health personnel (in the two or three years preceding the su

Coptions 🗘	Use different options to modify your view. You can choose custom axis ranges and graph titles.	Selection Options Downloads Graph titles Main title Indonesia (ICEH - DHS 2017)	
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).	Selection Options Downloads Graph download The graph will be downloaded as a png or jpg image or praccording to your selections. Select image type PNG JPG	odf. Titles will be displayed
		Download graph 🛓	
		Data download	
		The data will be downloaded as a text file with values sep according to your selection. These can be opened in a tex	
		Select field separator Commas	Tabs
		Download data 🛓	

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.

roductive, maternal, newborn and child health (household surveys) ore inequality Disaggregater citere	Ľ	Horizont	al line 📴 Vertical bar 🖺 Horizont	al bar	🏶 Map		🖽 Table
Selection V Options Downloads			are from externally published sources and gost memory not WHO official estimates. Please re en data are available for the secretisd combination of variables; if estimates are not shown, dat		out menu for more info ause of smann mole si	rmation. zes.	
etting (e.g. country/territory, province, district)	÷ Setting	Date :	Indicator name	Dimension	Subgroup	Estimate	Population share
ata sources	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
Make a selection DHS Program - DHS × ICEH - DHS × UNICEF - DHS × UNICEF - Other ×	• Indonesi	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
late Remove dates All dat	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
Make a selection menu	Indenesia	2017	Births attended by skilled health personnel (%) (in the two	a conomic status (wealth uintile)	Quintile 4	97.0	20.3
1991 - 1994 - 1997 - 2003 - 2007 - 2010 - 2012 - 2013 - 2016 × 2017 ×	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
idicator Make a selection	+ Indonesi	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
Births attended by skilled health personnel (%) (in the two or three years preceding the surve)	* 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
Make selection	¢ Indonesia	2012	Pirths attended by skilled health personnel (%) (in the two or three year, oreceding the survey)	Economic status (wealth quintile)	Quintile 3	90.9	19.7
Economic start (wealth quintile) ×	Indonesia	2012	Births attended by skilled health personnel (%) (in the two or three years preceding the scorey)	Economic status (wealth quintile)	Quintile 4	95.3	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).

				Se	earch field	Search	
Setting 🔅	Date	Indicator name	Table columns	Dimension	Subgroup	🗧 Estimate 🔶	Population share 👳
Indonesia	2017	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	75.6	20.5
Indonesia	2017	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 2	91.0	20.9
Indonesia	2017	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 3	96.0	19.6
Indonesia	2017	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 4	97.0	20.3
Indonesia	2017	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 5 (richest)	99.2	18.7
Indonesia	2012	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 1 (poorest)	60.4	21.5
Indonesia	2012	Births attended by skille years preceding the sum	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 2	84.0	19.8
Indonesia	2012	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 3	90.9	19.7
Indonesia	2012	Births attended by skille years preceding the sur	d health personnel (in the two or three /ey) (%)	Economic status (wealth quintile)	Quintile 4	95.3	20.6
					Table	nages Pr	revious 1 Nex

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		
Y Selection	Select the data displayed in the visual, including your setting of interest, data source(s), date(s), indicator(s) and inequality dimension(s).	Selection Options C Downloads Setting (e.g. country, province, district) Indonesia Data sources Make a selection ICEH - DHS × Date Make a selection 1997 × 2003 × 2007 × 2012 × 2017 × Indicator Make a selection Births attended by skilled health personnel (in the two or three y Inequality dimension Make a selection Economic status (wealth quintile) ×	CREMOVE dates All dates
Options	Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.	Selection Options Downloads Table content Variables Make a selection Setting × Date × Indicator name × Dimension × Subgroup × Estimate × Population share × Number of decimals 0 1 2 3 4 5	
-----------	--	---	
Downloads	Download the data displayed in the visual (as comma or tab separated text files).	Selection Options Downloads Data download 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. Select field separator Commas Tabs Download data	

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.

EN • Choose dataset ((1) Rivid Hunth Equity Assessment Toolikit (HEAT)			equality - Compare inequality - Determinants About -
Reproductive, maternal, newborn and child health (household surveys) Explore inequality Summary measures	🗉 Bar	Line Line	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 inequa

[ab	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.	Selection Options Downloads Setting (e.g. country, province, district) Indonesia + Data sources - Make a selection + ICEH - DHS × - Date Remove dates All dates Make a selection + - 1997 × 2003 × 2007 × 2012 × 2017 × - - Indicator - - Make a selection + - Inequality dimension - - Make a selection + - Economic status (wealth quintile) × Place of residence × Summary measure - - Difference (D) + -
Coptions	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.	Selection ▼ Options ♥ Downloads ● Data labels Size None Small Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval

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).	Selection Options Downloads Graph download The graph will be downloaded as a png or jpg image or pdf. will be displayed according to your selections. Select image type	Titles and axis labels
		PNG JPG	PDF
		Download graph 🛓	
		Data download — The data will be downloaded as a text file with values separa tabs, according to your selection. These can be opened in a spreadsheet package.	· · · · · · · · · · · · · · · · · · ·
		Select field separator	
		Commas	Tabs
		Download data 🛓	

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.

Tab	Description				
Y Selection Select the data displayed in visual, including your setting		Selection 🔻 Options 🌣 Downloads 🖥			
	interest, data source(s), date(s),				
	indicator(s), inequality	Setting (e.g. country, province, district) Indonesia			
	dimension(s) and summary	Indonesia			
	measure.	Data sources			
		Make a selection			
		ICEH - DHS ×			
		Date Remove dates All da			
		Make a selection			
		1997 × 2003 × 2007 × 2012 × 2017 ×			
		Indicator			
		Make a selection			
		Births attended by skilled health personnel (in the two or three years preceding the survey) (%) $ \times$			
		Inequality dimension			
		Make a selection			
		Economic status (wealth quintile) ×			
		Summary measure			
		Difference (D)			
		Dimercine (b)			
Coptions	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.	Selection Options Downloads Data labels Size			
Coptions	your view. You can choose to show data labels and confidence	Data labels			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size None Small Medium Large			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size None Small Medium Large Number of decimals			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size None Small Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size None Small Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size None Small Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Nome Small Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval Include 95% confidence interval Axis range Axis minimum Axis maximum			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Number of decimals 0 1 2 3 4 5 Confidence interval Include 95% confidence interval Axis range Axis minimum Axis maximum Graph titles			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Number of decimals 0 1 2 3 4 5 Confidence interval Indude 95% confidence interval Axis range Axis minimum Graph titles Main title			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval 3 4 5 5 Include 95% confidence interval Axis range 4 5 Graph titles Graph titles 4 5			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Number of decimals 0 1 2 3 4 5 Confidence interval Include 95% confidence interval 4 5 Axis range 4 4 5 Graph titles 6 6 6 Main title 1 1 1 1 Aris maximum 6 1			
Coptions	your view. You can choose to show data labels and confidence intervals, and select custom axis	Data labels Size Medium Large Number of decimals 0 1 2 3 4 5 Confidence interval 3 4 5 5 Include 95% confidence interval Axis range 4 5 Graph titles Graph titles 4 5			

Table 9 Selection menu for the 'Line graph' showing 'Summary measures' under 'Explore inequality'

Downloads	Download the results displayed in the visual, including the graph	Selection 🔻 Options 🏟 Downloads 🖻	
	(as png or jpg images or pdf)	Graph download	
	and/or the data (as comma or tab separated text files).	The graph will be downloaded as a png or jpg image c will be displayed according to your selections.	r pdf. Titles and axis labels
		Select image type	
		PNG JPG	PDF
		Download graph 🛓	
		Data download	
		The data will be downloaded as a text file with values s tabs, according to your selection. These can be opened spreadsheet package.	· · · · · · · · · · · · · · · · · · ·
		Select field separator	
		Commas	Tabs
		Download data 🛓	

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.

EN : Choose dataset (d) (by the the tequity Assessment Toolkit (HEAT)				Home Explore inequality -	Compare inequality - Determin	iants About -
Reproductive, maternal, newborn and child health (household surveys) Explore inequality Summary measures			LE Bar 🗠 Line		🖽 Table	
Selection 🔻 Options 🏚 Downloads 🖥			a are from externally published sources and a constraint of one WHO official estimates. Please refer to th en data are available for the enected combination of variables; if estimates are not shown, data are no			
Setting (e.g. country/territory, province, district)	Setting	Date	Indicator name	Dimension	Suarch	: Estimate :
Days sources	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
Aake a selection	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
Date Remove dates All dates	ndonesia	2007	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	Economic status (wealth quintile)	Difference (D)	49.
Make a selection •	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
Indicator	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
Make a selection • Biths attinded by stilled health personnel (%) (in the two or three years preceding the survey) • Inequality dimension • Make a selection • Summery measure • Difference (D) •					Previous	a 1 Post

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).

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

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			
Tab Tab	•	Selection Options Setting (e.g. country, province, district) Indonesia Data sources Make a selection CEH - DHS × Date Most recent date Make a selection \$ 1997 × 2003 × 2007 × 2012 × 2017 × Indicator Make a selection \$ 1000 × 2007 × 2012 × 2017 × Indicator \$ 1000 × 2007 × 2012 × 2017 × Indicator \$ 1000 × 2007 × 2012 × 2017 ×		

Options	Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.	Selection Options Downloads Table content Variables Make a selection Setting × Date × Indicator name × Dimension × Setting × Date × Number of decimals 0 1 2 3 4
Downloads	Download the data displayed in the visual (as comma or tab separated text files).	Selection Options Downloads Data download Data 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. Select field separator Commas Tabs Download data 🛓

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.

EN • Choose dataset 🛞 Word Routh Coperization Health Equity Assessment Toolkit (HEA	Home Explore inequality - Compare inequality - Determinants About -	
Reproductive, maternal, newborn and child health (household surveys)	ビ Graph	I Table
Compare inequality Disaggregated data		

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 <u>equiplot</u>) 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.

Tab	Description	
Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator and inequality dimension.	Selection Benchmarks 葉 Options ✿ Downloads B Setting (e.g. country, province, district) Indonesia • Indonesia • Data sources Make a selection • INDE • Date • 2017 • Indicator Births attended by skilled health personnel (in the two or three years preced • Inequality dimension • Economic status (wealth quintile) •
‡ 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).	Selection Benchmarks (Selection) Downloads (Selection) Filter by country-income group Make a selection • Lower middle income × Filter by WHO region • Make a selection • • South-East Asia × Data sources • Make a selection • • CEEH - DHS × CEEH - MICS × Select comparison settings Make a selection • • Make a select

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

Coptions	Use different options to modify your view. You can choose custom axis ranges and graph titles.	Selection Benchmarks (Selection Downloads Development) Axis range Axis minimum Axis maximum
		Graph titles
		Main title
		Births attended by skilled health personnel (in the two or three years preceding
		Horizontal axis title
		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).	Selection Benchmarks marks Options Downloads Graph download Graph 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 Download graph ▲ Data download 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. Select field separator Tabs Download data ▲

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.

productive, maternal, newborn and child health (household surveys) noare inequality I Disaggregated data			🗠 Graph		🖽 Table		
space integranty [Usaggi egyntact upon Selection ▼ Benchmarks 至 Options © Downloads 5 Setting (rg. country)territory, province, district)	By default, settin	gs from the s	e from externally published sources and are therefore source official estimates. Please refe same income group and WHG process in the selected setting are shown, if data are available, data are available, one selected combination of variables; if estimates are not shown, data a			rmation.	
Indoxesia +	Setting	Date	Indicator name	Dimension	Subgroup	Estimate	opulation share
Sta sources	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
ICEH - DHS +	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
Most recent date	Indinesia	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
dicator Selection menu	Indonesia	2017	Births attended by skilled health personnel (%) (in the two is a survey)	Economic status (wealth quintile)	Quintile 4	97.0	20.3
Make a selection • Births attended by skilled health personnel (%) (in the two or three years preceding the survey) ×	Indopesia	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
requality dimension	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
conomic status (wealth quintile) ×	Bangladesh	8017	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 threatywey)	Economic status (wealth quintile)	Quintile 4	62.4	20.1

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).

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

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'

|--|

▼ Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator(s) and inequality dimension(s).	Selection Benchmarks 至 Options ② Downloads ③ Setting (e.g. country, province, district) Indonesia ● Indonesia ● ● Data sources ● ● Make a selection ● ● Date ● ● Indicator ● ● Indicator ● ● Bitthe attended by skilled health personnel (in the two or three years preceding the survey) (%) × > Inequality dimension ● ● Make a selection ● ● Economic status (wealth quintile) × ● ●
₽ 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).	Selection Benchmarks 至 Options \$ Downloads \$ Filter by country-income group Make a selection Cower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection CEH - DHS × CEH - MICS × Select comparison settings Make a selection Enchmark date Most recent date Most recent date 1990
Options	Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.	Selection Benchmarks 至 Options ✿ Downloads ✿ Table content Variables Make a selection Setting × Date × Indicator name × Dimension × Subgroup × Estimate × Population share × Number of decimals 0 1 2 3 4 5

Downloads	Download the data displayed in the visual (as comma or tab separated text files).	Selection Benchmarks 20 Options 20 Data download 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. Select field separator Commas	Tabs			
		Download	data 🛓			

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.

EN * Choose dataset (c) Weld Math Health Equity Assessment Toolkit (HEAT) Home Explore inequality Compare inequality Determined on the compare inequality Deter					
Reproductive, maternal, newborn and child health (household surveys) Compare inequality Disaggregated data	🗠 Graph	🖽 Table			
Compare inequality Disaggregated data					

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.

Tab	Description		
Selection	Select the data displayed in the visual, including your setting of	Selection 🔻 Benchmarks 🐲 Options 🌣 Downloads 🖥	
	interest, data sources, date,	Setting (e.g. country, province, district)	
	indicator, inequality dimension	Indonesia	\$
	and summary measure.	Data sources	
		Make a selection	¢
		ICEH - DHS ×	
		Date	
		2017	¢
		Indicator	
		Births attended by skilled health personnel (in the two or three years preced	*
		Inequality dimension	
		Economic status (wealth quintile)	\$
		Summary measure	
		Difference (D)	\$
⋣ Benchmarks	Choose comparison settings for benchmarking. For country-level	Selection 🔻 Benchmarks 📚 Options 🏟 Downloads 🖥	
Eenchmarks	• •	Filter by country-income group Make a selection Lower middle income ×	•
≟ Benchmarks	benchmarking. For country-level data, you can filter countries by country-income group and/or WHO region. You can also select	Filter by country-income group Make a selection Lower middle income × Filter by WHO region	\$
≓ Benchmarks	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	Filter by country-income group Make a selection Lower middle income ×	
≓ Benchmarks	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources	\$
≛ Benchmarks	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	Filter by country-income group Make a selection Lower middle income * Filter by WHO region Make a selection South-East Asla * Data sources Make a selection	\$
≛ Benchmarks	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources	÷
Eenchmarks	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	Filter by country-income group Make a selection Lower middle income * Filter by WHO region Make a selection South-East Asla * Data sources Make a selection	÷
∄ Benchmarks	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection ICEH - DHS × ICEH - MICS × Select comparison settings Make a selection	÷
≕ Benchmarks	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection ICEH - DHS × ICEH - MICS × Select comparison settings	¢
	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection ICEH - DHS × ICEH - MICS × Select comparison settings Make a selection Bangladesh × Bhutan × India × Indonesia × Myanmar × Nepal ×	¢
∄ Benchmarks	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	Filter by country-income group Make a selection Lower middle income * Filter by WHO region Make a selection South-East Asla * Data sources Make a selection KEH - DHS * KEH - MICS * Select comparison settings Make a selection KEH - DHS * REH - MICS * Select comparison settings Make a selection KeH - DHS * REH - MICS * Select comparison settings Make a selection Eangladesh * Bhutan * India * Indonesia * Myanmar * Nepal * Timor-Leste * Benchmark date	÷ ÷
‡ Benchmarks	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asla × Data sources Make a selection KEH - DHS × CEH - MICS × Select comparison settings Make a selection Make a selection Timor-test × Benchmark date Most recent date	÷
₽ Benchmarks	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	Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection KEH - MICS × Select comparison settings Make a selection Bangladesh × Bhutan × India × Indonesia × Myanmar × Nepal × Timor-Leste × Benchmark date Most recent date Range start date	÷ ÷

 Table 13
 Selection menu for the 'Graph' showing 'Summary measures' under 'Compare inequality'

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.	Selection ■ Benchmarks Options ■ Graph style Format ● Points ○ ISO 3 labels ○ Setting labels Size				
		Small Medium Large				
		Axis range				
		Horizontal axis minimum Horizontal axis maximum				
		Vertical axis minimum Vertical axis maximum				
		Graph titles				
		Main title Births attended by skilled health personnel (in the two or three years preceding				
		Horizontal axis title Setting average Vertical axis title				
		Difference (D)				
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	Selection ▼ Benchmarks 菱 Options ✿ Downloads B Graph download				
	tab separated text files).	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				
		Download graph 🛓				
		Data download 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.				
		Select field separator				
		Download data 🛓				

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.

EN • Choose dataset 🛞 Root Rustin Health Equity Assessment Toolkit (HEA	(Τ)			Home Explore inequality - C	ompare inequality - Determina	ants About -
Reproductive, maternal, newborn and child health (household surveys) Compare inequality Summary measures			⊯ Graph	#	Table	
Selection 🔻 Benchmarks 🚍 Options 🌣 Downloads 🖥 Setting (e.g. coupertyterritory, province, district)	By default, setting	is from the s	e from externally sublished sources and are therefore not WHO official estimates. Please refer to the lu ame income group and WHO region as the selected source or control, if data are available, data are available for the selected estimation of variables; if estimates are not shown, data are not a		emple sizes.	
Indonesia •	Setting	Date	Micator name	Dimension	Summary measure name	Estimate
Data sfurces Nexe a selection	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
CEH - DHS ×	Banglagesh	2017	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	Economic status (wealth quintile)	Difference (D)	5 8
O Most recent date 2017 €	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
Indicator Selection menu	India	2015	Births attended by skilled health personnel (%) (in the two or the survey)	Economic status (wealth quintile)	Difference (D)	28.7
Make a selection Births attended by skilled health personnel (%) (in the two or three years preceding the survey) ×	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
Inequality dimension	Nepal	2016	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	Economic status (wealth quintile)	Difference (D)	513
Conomic status (wealth quintile) ×	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
Summiry measure Make Avecton = Ofference (0) >					Pranous	1 Next

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).

etting 🔶	Date	Indicator name	Table columns	\$ Dimension	\$ Summary measure name ≑	Estimate
ndonesia	2017	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	Economic status (wealth quintile)	Difference (D)	23.6
angladesh	2017	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	Economic status (wealth quintile)	Difference (D)	54.8
hutan	2010	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	Economic status (wealth quintile)	Difference (D)	61.0
ndia	2015	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	Economic status (wealth quintile)	Difference (D)	28.7
lyanmar	2016	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	Economic status (wealth quintile)	Difference (D)	58.7
lepal	2016	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	Economic status (wealth quintile)	Difference (D)	51.8
imor- este	2016	Births attended by ski preceding the survey)	lled health personnel (in the two or three years (%)	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.

Tab	Description		
Selection	Select the data displayed in the visual, including your setting of interest, data sources, date,	Selection 🔻 Benchmarks 🗱 Options 🏟 Downloads 🖥	
	indicator(s), inequality	Setting (e.g. country, province, district)	
	dimension(s) and summary	Indonesia	\$
	measure(s).	Data sources	
	measure(s).	Make a selection	\$
		ICEH - DHS ×	
		Date Most recent date	
		2017	¢
		Indicator	
		Make a selection	¢
		Births attended by skilled health personnel (in the two or three years preceding the survey) (%)	
		Inequality dimension Make a selection	¢
		Economic status (wealth quintile) ×	
		Summary measure	
		Make a selection	\$
➡ Benchmarks	Choose comparison settings for	Difference (D) ×	
- Benchmarks	Choose comparison settings for benchmarking. For country-level data, you can filter countries by	Selection 🔻 Benchmarks 📚 Options 🏟 Downloads 🖥	
📑 Benchmarks	benchmarking. For country-level data, you can filter countries by	Selection ▼ Benchmarks 秦 Options ✿ Downloads ⓑ Filter by country-income group	
🔁 Benchmarks	benchmarking. For country-level data, you can filter countries by country-income group and/or	Selection ■ Benchmarks ② Options ✿ Downloads ▇ Filter by country-income group Make a selection	÷
🗄 Benchmarks	benchmarking. For country-level data, you can filter countries by country-income group and/or WHO region. You can also select	Selection ▼ Benchmarks 秦 Options ✿ Downloads ⓑ Filter by country-income group	
≓ Benchmarks	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	Selection ■ Benchmarks ② Options ✿ Downloads ▇ Filter by country-income group Make a selection	¢
≓ Benchmarks	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	Selection ■ Benchmarks ② Options ② Downloads ③ Filter by country-income group Make a selection Lower middle income ×	
≟ Benchmarks	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	Selection V Benchmarks 🔅 Options 🇭 Downloads 🗟 Filter by country-income group Make a selection Lower middle income × Filter by WHO region	¢
∄ Benchmarks	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	Selection ■ ■ Downloads Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection	¢
≓ Benchmarks	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	Selection Benchmarks Options Downloads Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia ×	¢ \$
≓ Benchmarks	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	Selection Benchmarks Options Downloads Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources	¢
∄ Benchmarks	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	Selection Benchmarks ﷺ Options ✿ Downloads ✿ Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection	¢ \$
∄ Benchmarks	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	Selection Benchmarks Options Downloads Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection (CEH - DHS × (CEH - MICS ×	¢ \$
∄ Benchmarks	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	Selection ▼ Benchmarks 歪 Options ✿ Downloads ✿ Filter by country-income group Make a selection Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Image: Country-income group Image: Country-income group Image: Country-income group Image: Country-income group Image: Country-income group Image:	¢ ¢
≓ Benchmarks	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	Selection Benchmarks (Content of the selection) Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection Make a selection CEH - DHS × ICEH - DHS × ICEH - MICS × Select comparison settings Make a selection	¢ ¢
₽ Benchmarks	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	Selection Benchmarks 葉 Options ✿ Downloads ✿ Filter by country-income group Make a selection Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Image: Country-income group Image: Country-incountry-income group Image: Cou	¢ ¢
∄ Benchmarks	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	Selection Benchmarks and Doptions Downloads Filter by country-income group Make a selection Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection Kake a selection CEH - MICS × Select comparison settings Make a selection Bangladesh × Bhutan × India × Indonesia × Myanmar × Nepal × Timor-Leste × Benchmark date Most recent date	¢ ¢
₽ Benchmarks	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	Selection Benchmarks 葉 Options ✿ Downloads ✿ Filter by country-income group Make a selection Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Make a selection Image: Country-income group Image: Country-income group Image: Country-income group Image: Country-incountry-income group Image: Cou	¢ ¢
∄ Benchmarks	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	Selection Benchmarks ※ Options * Downloads * Filter by country-income group Make a selection Image: Selection Image: Start Ada * Make a selection South-East Ada * Image: Start Ada * Image: Start Ada * Data sources Make a selection Image: Start Ada * Image: Start Ada * Make a selection Image: Start Ada * Image: Start Ada * Image: Start Ada * Bengladesh * Bhutan * India * Indonesia * Myanmar * Nepal * Benchmark date Image: start date Brage: start date Image: start date Image: start date	¢ ¢

Table 14 Selection menu for the 'Table' showing 'Summary measures' under 'Compare inequality'

5 Compare inequality

Options	Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.	Selection Benchmarks ﷺ Options ✿ Downloads ✿ Table content Variables Make a selection ● Setting × Date × Indicator name × Dimension × Summary measure name × Estimate × 0 1 2 3 4 5
Downloads	Download the data displayed in the visual (as comma or tab separated text files).	Selection Benchmark: 至 Options ♀ Downloads ▶ Data download

6 Determinants

Under 'Determinants', you can **identify the association between the setting average of a health indicator and the setting average of a determinant indicator in various settings of interest**. Data of both the health indicator and determinant can be visualized in different graphs and tables. To access the visualizations, hover over and click 'Determinants'. The selected view will be highlighted in orange.



6.1 🔟 Graph

In this view, the health indicator and determinant indicator are displayed in a scatterplot along a linear regression line. 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 health indicator setting average (displayed on the xaxis) and the setting average of the selected determinant indicator (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).



The selection menu on the left allows you to customize the results displayed in the visual. Table 15 provides a description of the four tabs that comprise the selection menu: selection, benchmarks, options and downloads.

Tab	Description				
Selection	Select the data displayed in the visual, including your setting of	Selection 🔻 Benchmarks 🏶 Options 🍄 Downloads 🖥			
	interest, data sources, date,	Setting (e.g. country/territory, province, district)			
	indicator, and determinant.	Indonesia +			
		Data sources			
		Make a selection			
		ICEH - DHS ×			
		Date Most recent date			
		2017 +			
		Indicator			
		Births attended by skilled health personnel (%) (in the two or three years prece *			
		Determinant Current health expenditure per capita (current US\$)			
Benchmarks	Choose comparison settings for benchmarking. For country-level	Selection 🔻 Benchmarks 🕸 Options 🌩 Downloads 🖥			
≟ Benchmarks	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 nearest date or defining a	Filter by setting-income group Make a selection			
≟ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
≟ Benchmarks	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 nearest date or defining a	Filter by setting-income group Make a selection			
🔁 Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
⋣ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
⋣ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
≟ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
≟ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
ᡓ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection Low income × Lower middle income × Filter by WHO region Make a selection South-East Asia × Data sources Make a selection DHS Program - AIS × DHS Program - DHS × DHS Program - MIS × ICEH - AIS × ICEH - DHS × ICEH - DHS/MICS × ICEH - MIS × ICEH - AIS × UNICEF - AIS × UNICEF - DHS × UNICEF - DHS/MICS × UNICEF - LFS × UNICEF - AIS × UNICEF - DHS × UNICEF - Other × UNICEF - RHS ×			
ᡓ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection			
₽ Benchmarks	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 nearest date or defining a custom date range (including a	Filter by setting-income group Make a selection Low income × Low income × Low income × Eiter by WHO region Make a selection South-East Asia × Data sources Make a selection OHS Program - AIS × DHS Program - AIS × DHS Program - AIS × UNICEF - AIS × UNICEF - AIS × UNICEF - MIS × UNICEF - MIS × UNICEF - RHS × Select comparison settings Make a selection			

$\textbf{Table 15} \ \text{Selection menu for the `Graph' under `Determinants'}$

Use different options to modify	Selection T Bend	hmarks 📚	Options 🏟	Downloads 🗟	
1	Graph style				
your data points, add a regression line and choose	Format Points ISO 3 labels Setting labels				
titles.	Small	Med	lium	Large	
	Regression line				
	Regression line				
	Axis range				
	Horizontal axis minimum		Horizontal axis maximum		
	8				
			Vertical axis maxi		
			9		
	Main title Association between Births attended by skilled health personnel (%) (in the two Horizontal axis title				
	Vertical axis title				
	Births attended by skilled	health person	nel (%) (in the two	or three years precedi	
Download the results displayed	Selection T Benc	hmarks 🎏	Options 🏟	Downloads 🖥	
in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or tab separated text files).	Graph download				
				itles and axis labels	
	Select image type				
	PNG	JF	G	PDF	
	Download graph 🛓				
	Data download				
	Select field separator				
	Commas			Tabs	
	your view. You can select different formats and sizes for your data points, add a regression line and choose custom axis ranges and graph titles. Download the results displayed in the visual, including the graph (as png or jpg images or pdf) and/or the data (as comma or	your view. You can select different formats and sizes for your data points, add a regression line and choose custom axis ranges and graph titles.	your view. You can select different formats and sizes for your data points, add a regression line and choose custom axis ranges and graph titles.	your view. You can select different formats and sizes for your data points, add a regression line and choose custom axis ranges and graph titles.	

6.2 🖽 Table

In this view, setting averages 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.

oductive, maternal, newborn and child health (household surveys) rminants			🗠 Graph			🖽 Table	
Selection 🔻 Benchmarks 🌫 Options 🏟 Downloads 🖥			re from externally published sources and are therefore not W data are available for the selected combination of variables;				
etting (e.g. country/pentiory, province, district)							Search
Indonesia +	Setting	Date	Indicator name	Setting average	Determinant date	Determinant name	Determinant setting average
ata sources Muse a selection •	Indonesia	2017	Birms attended by skilled health personnel (%) (in the two or three years preceding the survey)	91.6	2017	Current health expenditure per capita (current US\$)	111.5
HS Program - DHS × ICEH - DHS × UNICEF - DHS × UNICEF - Other × ate Most recent date	Bangladesh	2017	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	52.9	2017	Current health expenditure per capita (current US\$)	42.3
dicator	Bhitan	2010	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	64.4	2010	Current health expenditure per capita (current US\$)	72.0
Aleke a select Selection menu • Births attended by skilled health personnel (k) (in the two or three years preceding the survey) •	India	2015	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	Vis 83.3	ual 2015	Current health expenditure per capita (current US\$)	58.4
terminant Jake a selection	Myannar	2016	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	64.9	2016	Current health expenditure per capita (current US\$)	59.2
Current health expenditure per capita (current US\$) ×	Nepal	2116	Births attended by skilled health personnel (%) (in the two or three years preceding the survey)	62.7	2016	Current health expenditure per capita (current US\$)	47.3
\mathbf{X}	Timor- Leste	2016	Births attended by skilled health personnel (%) (in the two or three years preceding the	58.4	2016	Current health expenditure per capita	92

What you see

The visual shows a table presenting the health indicator data for a selected setting of interest and selected benchmark settings. By default, the table displays information about the setting, date, indicator, and determinant (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).

How to explore

					Se	earch field	Search
Setting	Date 🗧	Indicator name Ta	ble column	sverage :	Determinant date	Determinant name	Determinant setting average
Indonesia	2017	Births attended by skilled health (%) (in the two or three years pre survey)		91.6	2017	Current health expenditure per capita (current US\$)	111.5
Bangladesh	2017	Births attended by skilled health (%) (in the two or three years pre survey)		52.9	2017	Current health expenditure per capita (current US\$)	42.3
Bhutan	2010	Births attended by skilled health (%) (in the two or three years pre survey)		64.4	2010	Current health expenditure per capita (current US\$)	72.0
India	2015	Births attended by skilled health (%) (in the two or three years pre survey)		83.3	2015	Current health expenditure per capita (current US\$)	58.4
Myanmar	2016	Births attended by skilled health (%) (in the two or three years pre survey)		64.9	2016	Current health expenditure per capita (current US\$)	59.2
Nepal	2016	Births attended by skilled health (%) (in the two or three years pre survey)		62.7	2016	Current health expenditure per capita (current US\$)	47.3
Timor- Leste	2016	Births attended by skilled health (%) (in the two or three years pre		58.4	2016	Current health expenditure per capita	93.0
Leste	2016	(%) (in the two or three years pre	eceding the	58.4	2016	Table pag	

The

selection menu on the left allows you to customize the results displayed in the visual. Table 16

provides a description of the four tabs that comprise the selection menu: selection, benchmarks, options and downloads.

Tab	Description	
▼ Selection	Select the data displayed in the visual, including your setting of interest, data sources, date, indicator(s), and determinant(s).	Selection Benchmarks marks marks Setting (e.g. country/territory, province, district) Indonesia Data sources Make a selection CETH - DHS × Date 1017 1017 Make a selection Make a selection Indicator Make a selection
₽ 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 nearest date or defining a custom date range (including a start and end date).	Selection Benchmarks (Participation) Downloads (Participation) Filter by setting-income group Make a selection • Low income × Lower middle income × • • Filter by WHO region • • Make a selection • • South-East Asia × • • Data sources • • Make a selection • • UNICEF - Alis × DHS Program - DHS × DHS Program - MIS × ICEH - Alis × UNICEF - Alis × UNICEF - DHS;MICS × UNICEF - Other × UNICEF - Other × UNICEF - Alis × UNICEF - MIS × UNICEF - Other × UNICEF - Other × UNICEF - Alis × UNICEF - MIS × UNICEF - Other × UNICEF - Other × UNICEF - RHS × Select comparison settings • • Make a selection • • • Make a selection
Options	Use different options to modify your view. You can add additional variables and determine the number of decimals for numeric values.	Selection Benchmarks \$\$ Options \$ Downloads \$ Table content Variables Make a selection Setting × Date × Indicator name × Setting average × Determinant date × Determinant name × Determinant setting average × Number of decimals 0 1 2 3 4 5

Table 16 Selection menu for the 'Table' under 'Determinants

Downloads	Download the data displayed in the visual (as comma or tab	Selection T	Benchmarks 🐲	Options 🌣	Downloads 🖥
	separated text files).	Data download			
			wnloaded as a text file selection. These can be		
		Select field separa	ator		
			ator commas		Tabs
					Tabs

