

READ THIS DOCUMENT BEFORE YOU START

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HEALTH EQUITY ASSESSMENT TOOLKIT PLUS (HEAT PLUS), UPLOAD DATABASE EDITION,  
VERSION 2.0

HEAT Plus was developed to facilitate the assessment of within-country health inequalities. Users can upload their own data and assess inequalities at the national or subnational level for a range of health indicators and dimensions of inequality. Databases have to be in a specified format in order to be uploaded to HEAT Plus (please refer to the user manual and the template for further information). Once uploaded, these data can be used to explore inequalities in a setting of choice and compare inequalities between different settings. Disaggregated data and summary measures are presented in a variety of different ways, including customized tables and graphs. Results can be exported and saved in different formats.

This package contains the Health Equity Assessment Toolkit Plus (HEAT Plus), Upload database edition, Version 2.0 and supporting software.

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DISCLAIMER

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INSTALLATION

In order to run HEAT Plus on your device, you require the “R” statistical software and a web browser. In the standalone package of the Toolkit, WHO has provided a portable version of “R” and the portable edition of the web browser Google Chrome. This does not imply in any manner that the use of these products are endorsed or recommended by the World Health Organization in preference to others of a similar nature. R Portable and Chrome Portable do not require any installation.

To run HEAT Plus on your Windows machine, download the compressed "HEAT Plus for Windows" (zip) file, unzip the file and save the content to your computer's hard drive. Select the “HEAT Plus for Windows” folder and double-click the “Start\_HEATPlus.bat” file. The toolkit will automatically open in a Chrome Portable browser window.

It is recommended to copy the content of this medium to your computer’s hard drive.

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## REVISION HISTORY

### December 2018 – Version 2.0

- Incorporation of interactive visuals (replacing static graphs)
- Incorporation of a translation feature
- Calculation of additional summary measures of inequality for non-ordered dimensions:
  - Between-group standard deviation (BGSD)
  - Coefficient of variation (COV)
  - Unweighted mean difference from best performing subgroup (MDBU)
  - Unweighted mean difference from mean (MDMU)
- Revision of summary measure formulas for
  - Slope index of inequality (SII)
  - Relative index of inequality (RII)
- Incorporation of additional summary measures of inequality in the Explore Inequality – Disaggregated data (detailed bar graphs) tab, calculated for non-ordered dimensions with more than
  - 30 subgroups:
    - Difference between percentile 80 and percentile 20
    - Ratio of percentile 80 to percentile 20
    - Difference between the mean estimates in quintile 5 and quintile 1
    - Ratio of the mean estimates in quintile 5 to quintile 1
  - 60 subgroups:
    - Difference between percentile 90 and percentile 10
    - Ratio of percentile 90 to percentile 10
    - Difference between the mean estimates in decile 10 and decile 1
    - Ratio of the mean estimates in decile 10 to decile 1
  - 100 subgroups:
    - Difference between percentile 95 and percentile 5
    - Ratio of percentile 95 to percentile 5
    - Difference between the mean estimates in the top 5% and the bottom 5%
    - Ratio of the mean estimates in the top 5% to the bottom 5%

### July 2017 – Version 1.0

Initial public release.

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Please read these Terms of Use and Software License Agreement (the “Agreement”) carefully before installing the Health Equity Assessment Toolkit (the “Toolkit”).

By installing and/or using the Toolkit, you (the “Licensee”) enter into an agreement with the World Health Organization (“WHO”) and you accept all terms, conditions, and requirements of the Agreement.

## 1. Components and Types of the Toolkit

1.1. The Toolkit contains software developed by WHO (the “Software”). WHO has, or will, make two editions of the Toolkit available:

(i) a built-in database edition which includes WHO data, originating from the WHO Health Equity Monitor database, for use with the Software (the “Data”), and which does not allow you to upload your own data into the Software (the “Closed Toolkit”); and

(ii) an upload database edition which enables you to upload your own data into the toolkit, does not include the Data, and does not include any reference to WHO, by name, logo, or otherwise (the “Open Toolkit”).

This Agreement governs your use of whichever edition(s) of the Toolkit you have downloaded and/or used through an online platform, including both the Software and, if applicable, the Data. References to the “Toolkit” in the remainder of this Agreement apply to the Closed and/or Open editions, as applicable in your particular case, including, as applicable the Software and the Data.

## 2. Third-party Software

2.1. Third-party software needed to use the Toolkit. In order to run the Software, you will need the “R” statistical software and a web browser. In the stand-alone package of the Toolkit, WHO has provided a portable version of “R”, and the portable edition of the web browser Google Chrome. These do not require any installation.

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Health Equity Assessment Toolkit (HEAT): Software for exploring and comparing health inequalities in countries. Built-in database edition. Version 3.0. Geneva, World Health Organization, 2018.

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8.2. WHO further expressly excludes liability for any indirect, special, incidental or consequential damages which may arise in respect of the Toolkit and its use, and the results thereof, including, without limitation, any use of the Data.

#### 9. Your Indemnification of WHO

9.1. You shall indemnify, hold harmless, and defend at your own expense WHO, its officers, agents, and employees from and against any claims, demands, causes of action, and liability of any nature or kind resulting from or relating to your use of the Toolkit.

#### 10. Term and Termination of this Agreement

10.1. This Agreement shall remain in effect so long as you hold any copy of the Toolkit on any of your computer systems or storage media. This Agreement, including the rights granted under it, shall terminate automatically upon any breach by you of any of its terms. Further, WHO may terminate this Agreement, including the rights granted under it, at any time, with immediate effect, for any reason, by written notice to you. This Agreement is the entire agreement between you and WHO with respect to its subject matter. This Agreement may only be amended by mutual written agreement of you and WHO.

10.2. Upon termination of this License for any reason whatsoever, you shall immediately cease all use of the Toolkit and destroy and/or remove all copies of the Toolkit from your computer systems and storage media.

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11.3. If any provision of this Agreement is invalid or unenforceable, it is to that extent to be deemed omitted. The remainder of the Agreement shall be valid and enforceable to the maximum extent possible.

11.4. Paragraph headings in this Agreement are for reference only.

11.5. Any matter relating to the interpretation or application of this Agreement which is not covered by its terms shall be resolved by reference to Swiss law. Any dispute relating to the interpretation or application of this Agreement shall, unless amicably settled, be subject to conciliation. In the event of failure of the latter, the dispute shall be settled by arbitration. The arbitration shall be conducted in accordance with the modalities to be agreed upon by the parties or, in the absence of agreement, in accordance with the UNCITRAL Arbitration Rules. The parties shall accept the arbitral award as final.

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## FEEDBACK

To report any software problems, please send an email to [heat@who.int](mailto:heat@who.int) with details on

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- What type of problem you encountered?
- Where you encountered the problem (i.e. which tab was selected)?
- What variables were selected when you encountered the problem (i.e. which country, year(s), health indicator(s), inequality dimension(s) and, if applicable, summary measure(s))?
- Whether the problem occurred systematically or randomly (i.e. were you able to reproduce the problem or not)?
- A screenshot of the HEAT Plus window showing the problem.

Kindly note that this is not a helpline address.