(KIT) Living Income Tools —— Density (kernel smoothened) plots about the total household
income with the goal of comparing to the benchmark value, optionally by groups.
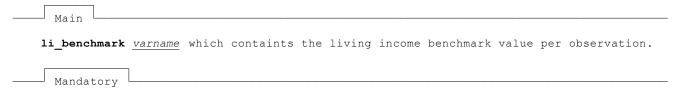
Syntax

KITLI_compare2bm *li_benchmark* [*if*] [*in*], arguments

mandatory arguments	Description
bm_achieved(_varname_**)**	_varname_ of an indicator variable on whether a household achieved the benchmark
total_hh_income(_varname_**)**	_varname_ of total household income

optional arguments	Description
Grouping	
grouping_var(_varname_**)**	grouping variable
Graph options	
ytitle(_text_**)**	Text for y axis. Default "Proportion of households (%)"
spacing(_real_**)**	Value for spacing between the boxes of the combined graph of all groups. Default to 0.02
colors(_text_**)**	String with colors for the graph. Default "ebblue%30 | blue%30 | green%30 | orange%30"
Graph exporting	
nosave	does not save the generated graph (default behavior is to save)
subfolder(_text_**)**	(relative) subfolder to save the graph. Default is the current folder

Description

KITLI_compare2bm produces density (kernel smoothened) plots as fractions about the
distribution of total household income with the goal of comparing to the benchmark value. If
a grouping variable is used, it creates a singl per group and a combined graph.

It produces graphs similar to what can be seen at:
https://www.kit.nl/wp-content/uploads/2019/01/Analysis-of-the-income.pdf
https://docs.wixstatic.com/ugd/0c5ab3_93560a9b816d40c3a28daaa686e972a5.pdf

Arguments

Main

li_benchmark _varname_ which containts the living income benchmark value per observation.

Mandatory

bm_achieved(_varname_**)** _varname_ of an indicator variable on whether a household achieved the
benchmark. It should have a value of 1 in case of achievement and 0 otherwise

total_hh_income(_varname_**)** _varname_ of total household income, including the main income
source.

li_benchmark and ***total_hh_income(***varname*)* need to be in the same currency and unit (e.g., USD per household).

───┌ Grouping └──

grouping_var(*varname***)** grouping variable. If specified, density charts will have one curve per group.

───┌ Graph options └───

ytitle(*text***)** Text for y axis. If not specified, *Proportion of households(%)* is shown.

spacing(*real***)** Value for spacing between the boxes of the combined graph of all groups. Only relevant if grouping_var:(varname) is provided. Default to 0.02

colors(*text***)** Colors for the curves. Multiple colors need to be separated by a "|". Default "ebblue%30 | blue%30 | green%30 | orange%30".

For more information see colorstyle

───┌ Graph exporting └───

nosave does not save the generated graph (default behavior is to save). Graph name will start with the total_hh_income:(varname) variable name followed by "_living_income_benchmark" and the group label, if applicable.

subfolder(*text***)** (relative) subfolder to save the graph. Default is the current folder. Please make sure name is correct includes "/" as separator if needed. Folder will be created if necessary.

Examples

Setup

. **use LI_example_data.dta, replace**

Comparison plots for all

. **KITLI_compare2bm benchmark_cluster, bm_achieved(li_benchmark_achieved) total_hh_income(total_hh_income_2018)**

Comparison plots, by group

. **KITLI_compare2bm benchmark_cluster, bm_achieved(li_benchmark_achieved) total_hh_income(total_hh_income_2018) grouping_var(grouping)**

Citation

KITLI_compare2bm is not an official Stata command. It is a free contribution to the research community, like a paper. Please cite it as such:

Tyszler, et al. (2019). Living Income Calculations Toolbox. KIT ROYAL TROPICAL INSTITUTE and COSA. Available at: m.tyszler@kit.nl

If you have requests or suggestions, please do so at our repository: https://bitbucket.org/kitimpactteam/living-income-calculations/

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References

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