Title

(KIT) Living Income Tools —— Bar charts of the Gap to the Living Income Benchmark.

Syntax

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

mandatory arguments	Description
total_main_income(*varname***)**	*varname* of total income from main source, for example main crop sales
total_hh_income(*varname***)**	*varname* of total household income

optional arguments	Description
Calculation	
median	compute <u>medians</u> instead of <u>mean</u> (default)
as_share	compute share of the benchmark value instead of absolute (default)
food(*number***)**	include value of food produced and consumed at home
(Optional) Grouping	
grouping_var(*varname***)**	grouping variable
Graph labels	
label_currency(*text***)**	Text for currency name. Default "USD"
label_main_income(*text***)**	Text for main income. Default "Income from main crop"
label_remaining_income(*text***)**	Text for remaining income. Default "Other income"
Graph colors	
color_main(*text***)**	Color of main source of income. Default "blue%30"
color_remaining(*text***)**	Color of remaining income. Default "ebblue%30"
color_gap(*text***)**	Color of the gap to the living income benchmark. Default "red%30"
color_food(*text***)**	Color of the intrinsic value of food consumed at home. Default "orange%30". Only in case *food* is defined
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_barcharts produces bar charts of the Gap to the Living Income Benchmark, assuming there are two main sources of income.

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

It computes, optionally per group, the average or median household and breaksdown its income into main income, other income, gap to the living income benchmark. Optionally it includes a fixed value for the intrinsic value of food crops produced and consumed at home.

Arguments

Main

li_benchmark *varname* which containts the living income benchmark value per observation.

Mandatory

total_main_income(*varname***)** *varname* of total income from main source, for example main crop sales. The graphs assume there is one main income source.

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

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

Calculation

median changes the default behavior (mean) and computes medians.

as_share compute shares of the benchmark value instead of absolute (default), i.e. all bars are normalized to 100% of the benchmark value.

food(*number***)** include value of food produced and consumed at home. This needs to be in the same currenty and unit as *li_benchmark, total_main_income(varname) and total_hh_income(varname)* , and cannot change per group.

Grouping

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

Graph labels

label_currency(*text***)** Text for currency name. If not specified, *USD* is shown.

label_main_income(*text***)** Text for main income. If not specified, *Income from main crop* is shown.

label_remaining_income(*text***)** Text for remaining income. If not specified, *Other income* is shown.

Graph colors

For more information see colorstyle

color_main(*text***)** Color of main source of income. Default "blue%30".

color_remaining(*text***)** Color of remaining income. Default "ebblue%30"

color_gap(*text***)** Color of the gap to the living income benchmark. Default "red%30"

color_food(*text***)** Color of the intrinsic value of food consumed at home. Default "orange%30". Only in case *food* is defined

Graph exporting

nosave does not save the generated graph (default behavior is to save). Graph name will start with "bar_LI_gap" and will be followed by "mean" or "median", and include "as_share" and/or "food" as applicable.

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

Examples

Setup

. **use LI_example_data.dta, replace**

Bar Chart by group, means

. **KITLI_barcharts benchmark_cluster, total_main_income(total_income_2018) total_hh_income (total_hh_income_2018) grouping_var(grouping) subfolder("Bar_Charts")**

Bar Chart by group, medians

. **KITLI_barcharts benchmark_cluster, total_main_income(total_income_2018) total_hh_income (total_hh_income_2018) grouping_var(grouping) subfolder("Bar_Charts") median**

Bar Chart by group, means as share

. **KITLI_barcharts benchmark_cluster, total_main_income(total_income_2018) total_hh_income (total_hh_income_2018) grouping_var(grouping) subfolder("Bar_Charts") as_share**

Bar Chart by group, medians as share

. **KITLI_barcharts benchmark_cluster, total_main_income(total_income_2018) total_hh_income (total_hh_income_2018) grouping_var(grouping) subfolder("Bar_Charts") median as_share**

Bar Chart by group, means with food value

. **KITLI_barcharts benchmark_cluster, total_main_income(total_income_2018) total_hh_income (total_hh_income_2018) grouping_var(grouping) subfolder("Bar_Charts") food(450)**

Bar Chart by group, means with food value as share

. **KITLI_barcharts benchmark_cluster, total_main_income(total_income_2018) total_hh_income (total_hh_income_2018) grouping_var(grouping) subfolder("Bar_Charts") food(450) as_share**

Citation

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References
    Bitbucket repository: https://bitbucket.org/kitimpactteam/living-income-calculations/