

Distributive measures in

Costa Rica

United Nations Network of Economic Statisticians Second Beyond GDP Sprint Meeting

March 24th, 2022

Gabriela Saborio Henry Vargas

The opinions expressed by the presenters do not necessarily represent those of the Central Bank authorities.



Outline

- 1. Introduction
- 2. Objectives
- 3. Methodology
- 4. Data sources
- 5. Main results
- 6. Challenges, lessons learned and next steps

1 Introduction



Distributional measures are needed to assess the degree of inequality





Project objectives

Develop distributive measures of national accounts

Develop and test a simplified methodology to promote measures of household income and consumption distribution consistent with national accounts.

Understand the differences between NA and survey

Better understanding of national accounts and household surveys to help reconcile micro and macro sources.

Improve quality

The estimation methodology is improved as necessary in terms of international best practices in the compilation of national accounts and household surveys.



Project Outcomes

- Increased capacity in Costa Rica to compile national accounts distributional measures.
- Increased capacity of the World Bank to assist its client countries.





EG-DNA methodology followed





Data sources

In addition to the Institutional sectorial accounts, the following surveys where used:

Source	Type of sourvey	Objective	Population under study	Domains	Frequency	Main topics covered
National Survey of Household Income and Expediture (Enigh)	Survey to households and individuals	Produce statistical information on spending patterns and the structure of household income in Costa Rica, to update consumption and financial situation indicators.	Individual dwelings, the households that inhabit these dwelings and the habitual residents of the households.	 National level Zone urban and rural Planning region: Central, Chorotega, and the others. 	Five year (2018)	Household final consumption expenditure, non-consumption expenditure, capital expenditure and household income and
National Survey of Households Microenterprises	`	lousehold Provide statistical survey information related to the	Micro-enterprises of households of productive activities of goods or services directed to the market, in whole or in part.	National level Zone urban and	Anual	savings. Characteristics of the activity, sales, expenses, assets and financing.
	Sectory			rural 3. Planning region: Central, Chorotega, and the others		



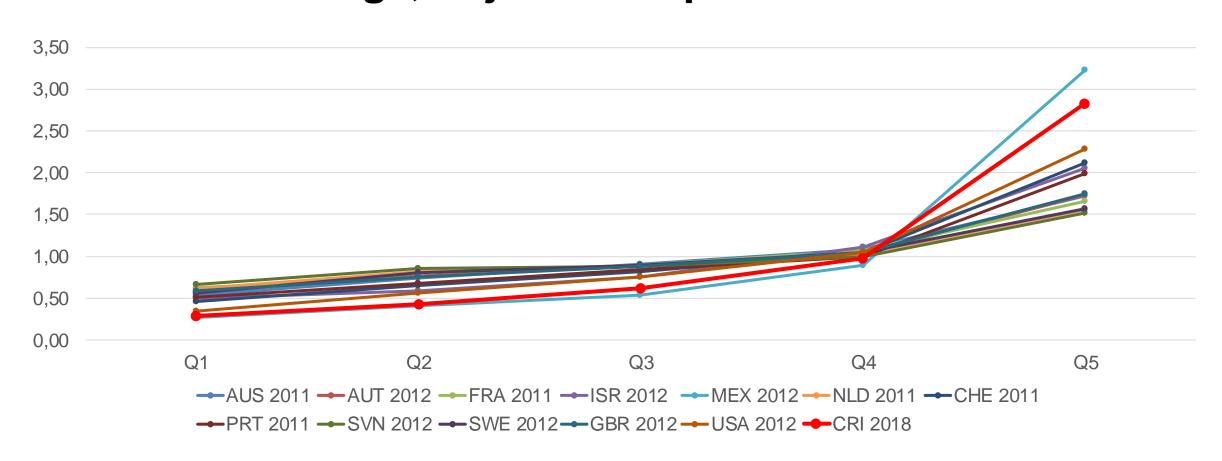
5 Main results

- Compilation of sequence of household accounts from production, disposable income, final consumption and saving for year 2017 and then updated for 2018.
- Households are grouped: income quintiles, reference person's gender, reference person's economic activity.
- Inequality indicators obtained.
 - 1. Variables by household and by consumption unit.
 - 2. Disparity measures.
 - Ratio of each group with respect to the mean.
 - Max/Min Ratio.
 - Variation coefficient.
- Distribution of each element of consumption and income by household group.





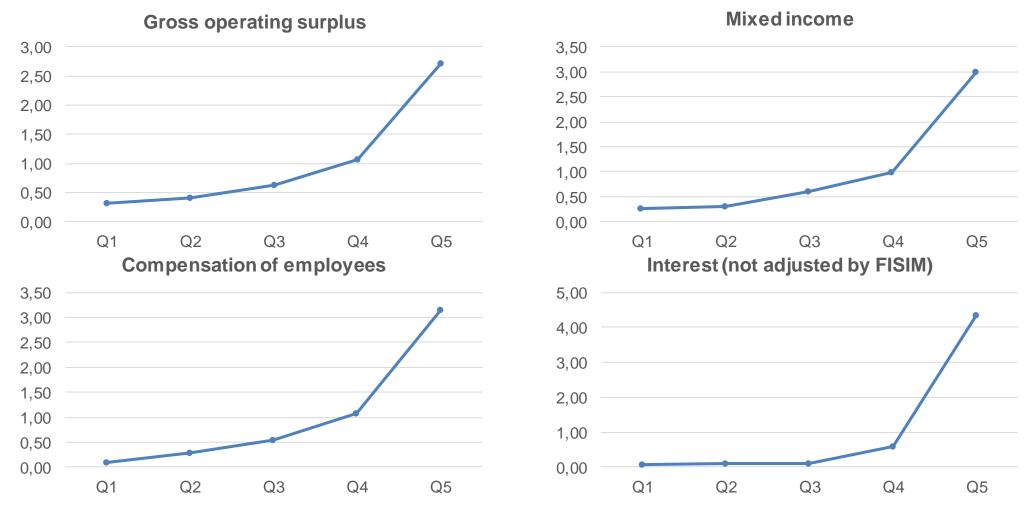
Main results by income quintile Ratio to average, adjusted disposable income







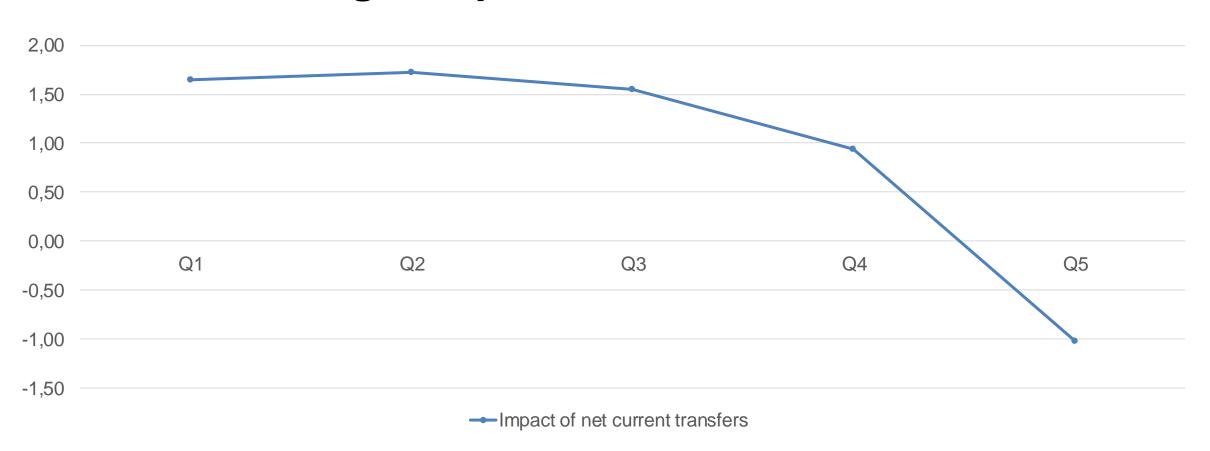
Main results by income quintile Ratio to average, income elements 2018







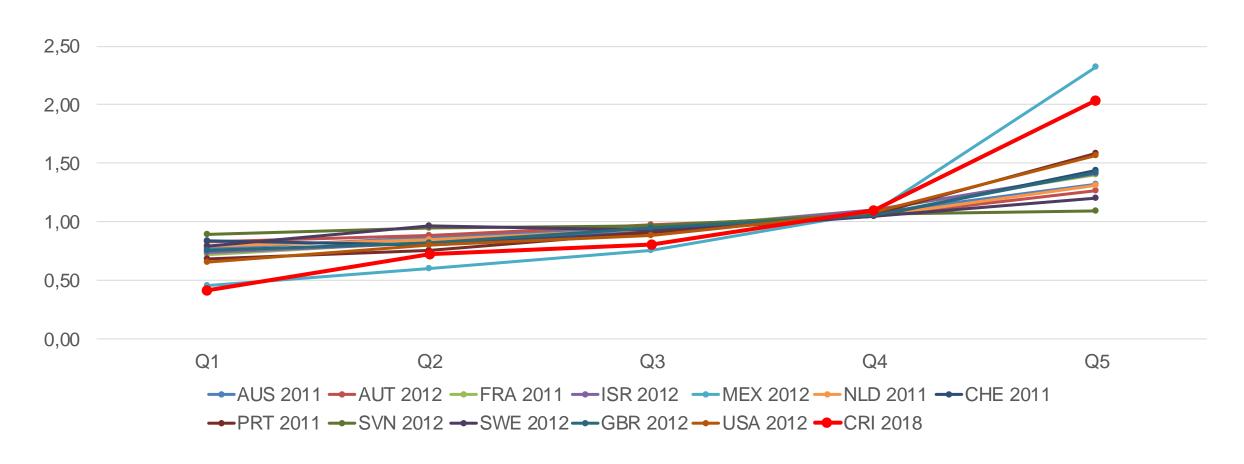
Main results by income quintile Ratio to average, impact of net current transfers 2018







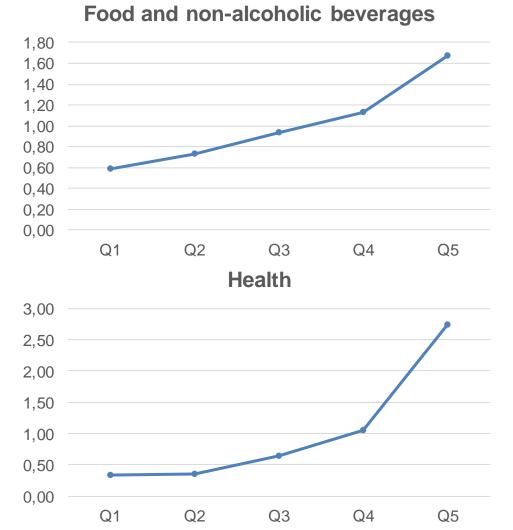
Main results by income quintile Ratio to average, actual final consumption expenditure

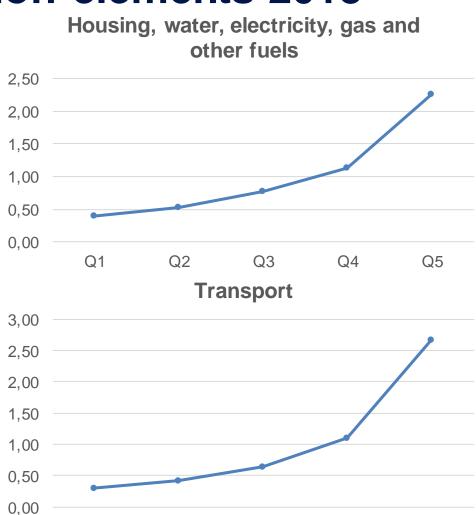






Main results by income quintile Ratio to average, consumption elements 2018





Q3

Q4

Q5

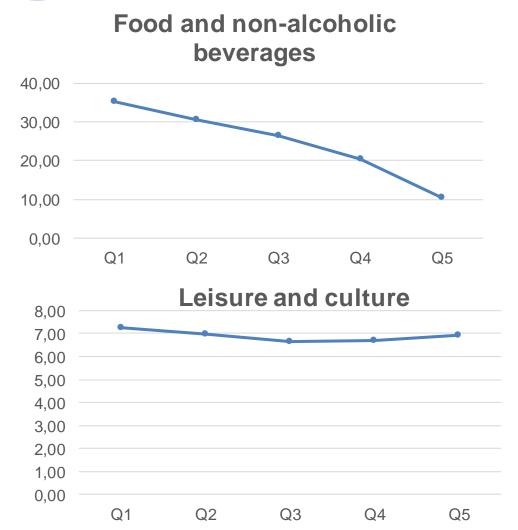
Q2

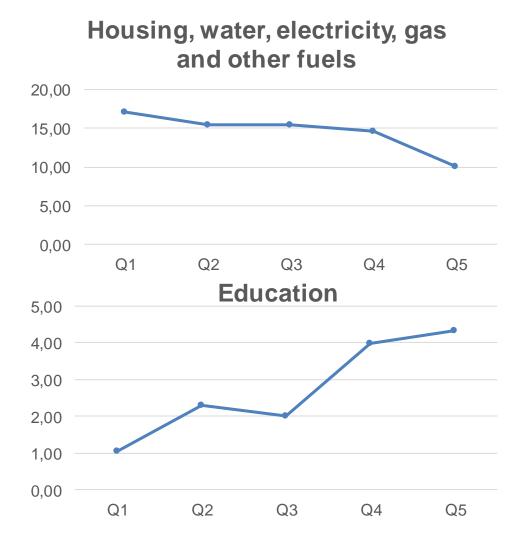
Q1





Main results by income quintile Average propensity to consume (%), consumption elements 2018

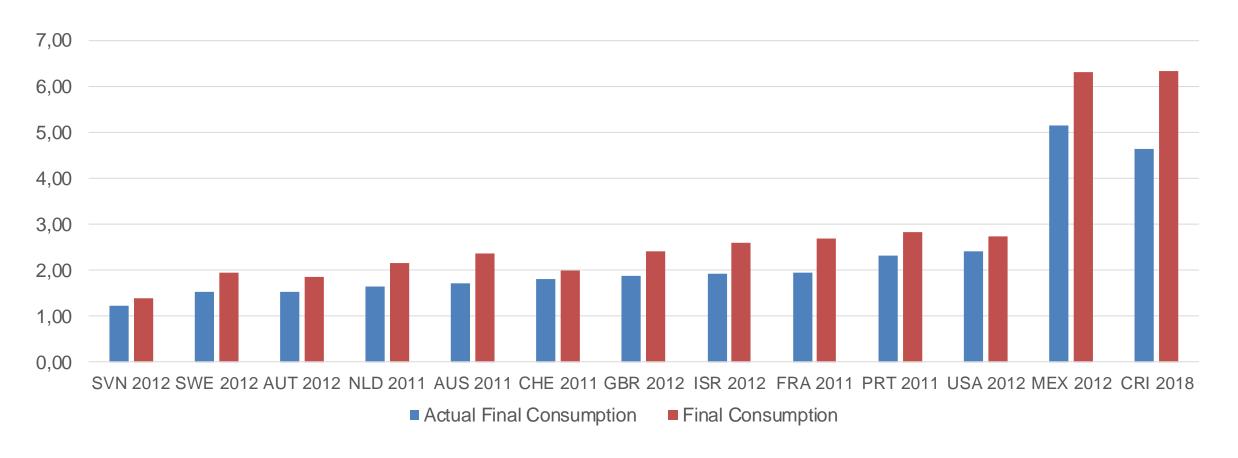




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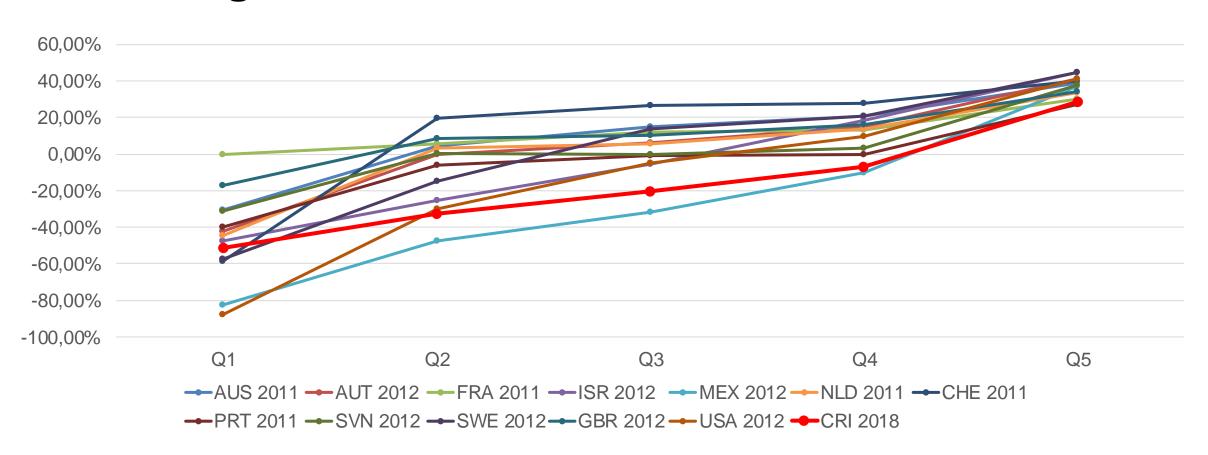
Main results by income quintile. Ratio Q5 / Q1 Actual final consumption vs. Final consumption expenditure







Main results by income quintile Saving ratio

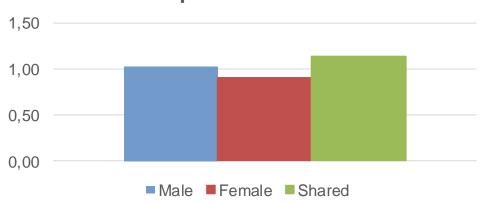




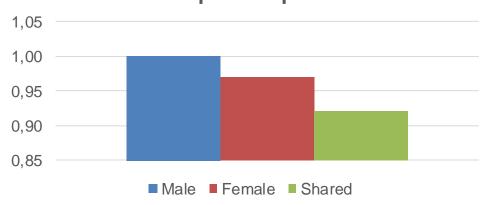


Main results by gender of the reference person 2018

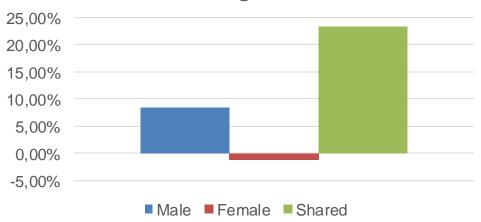




Ratio to average - Actual final consumption expenditure



Saving ratio







Main results by economic activity of reference person **Economic activities considered**



Agriculture, Livestock, Forestry and Fishing



Mining and quarrying



Manufacturing industries



A Supply of electricity, gas, steam and air 🕱 conditioning.



Water supply, sewage evacuation, management waste and decontamination



¹Construction



Wholesale and retail trade; vehicle repair of motor vehicles and motorcycles



Transportation and storage



Accommodation and food service activities



Information and communications



Financial and insurance activities



Real estate activities



Professional, scientific and technical activities



Administrative and support service activities



Public administration and defense; social security plans mandatory membership



Teaching



Human health care and social assistance activities



Artistic, entertainment and recreational activities



Other service activities

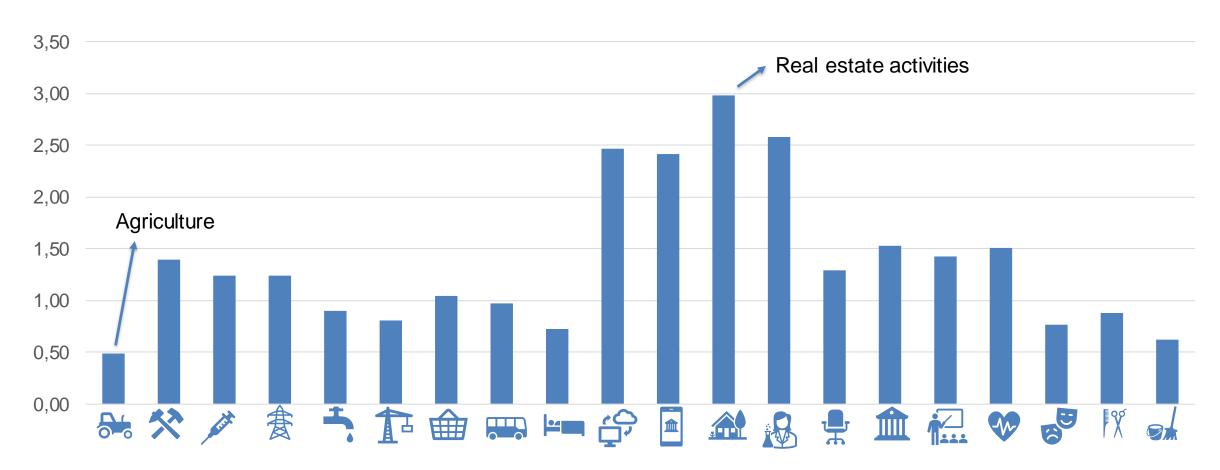


Activities of households as employers





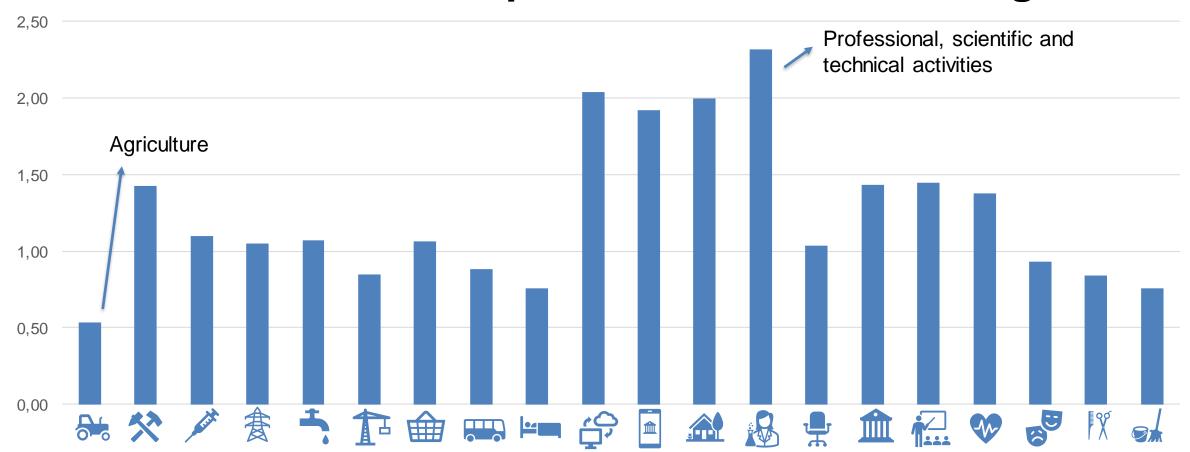
Main results by economic activity of reference person Adjusted disposable income 2018, ratio to average.







Main results by economic activity of reference person Actual final consumption 2018, ratio to average.





6 Challenges, lessons learned and next steps

- Sectorial accounts and ENIGH do not refer to the same year.
 - ❖ Reference year for the accounts was 2017 (latest available year) while ENIGH reference period was 2018.
 - Results were updated once the accounts for 2018 were available.
 - Introduce wealth
- > Tried to avoid using structure of aggregates when data on components is missing.
 - Favored the use of a combination of survey variables.
 - Better results in terms of micro-macro gaps.
- Adjustments needed on both micro and macro sides.
 - Outlier households in certain variables such as dividends were eliminated from the study due to their impact.





Challenges, lessons learned and next steps

- Working file structure facilitates the compilation of distributional results.
 - Collaboration from NSI and Central Bank's side was critical.
 - Better results in terms of micro-macro gaps.



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