



Ministry of Health - Brazil
FIOCRUZ (Oswaldo Cruz Foundation)
René Rachou Institute

“2030 AGENDA FOR WATER, SANITATION AND HYGIENE IN LATIN AMERICA AND THE CARIBBEAN: A LOOK FROM THE HUMAN RIGHTS PERSPECTIVE”

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BACKGROUND

UN General Assembly Resolution 64/292 in **2010**:
Recognition of the **Human Right to Water and Sanitation**

Normative content:

- *Availability*
- *Physical Accessibility*
- *Quality And Safety*
- *Affordability*
- *Acceptability*
- *Dignity And Privacy*

BACKGROUND

The 2030 Agenda for Sustainable Development (2015)

...

SDG 6. Ensure availability and sustainable management of water and sanitation for all

...

6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all



Indicator 6.1.1:

Proportion of population using safely managed drinking water services

BACKGROUND

6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations



Indicator 6.2.1a:

Proportion of population using safely managed sanitation services



Indicator 6.2.1b:

Proportion of population using hand-washing facilities with soap and water

STRUCTURE OF THE REPORT

1. Introduction
2. Access to WASH services in Latin America and the Caribbean
3. Inequalities in the access to WASH services
 - 3.1 Analysis of Inequalities by subgroups
 - 3.2 Multiple layers of inequality
 - 3.3 Water and Sanitation Access Adjusted by Inequality
4. Affordability
5. Institutional evaluation of the WASH sectors
6. Joint analysis: Access Data and Institutional Aspects
7. Case studies
8. Conclusions and recommendations

Launch version July 12 2017

Progress on
Drinking Water,
Sanitation and
Hygiene

2017

Update and SDG Baselines



FINANCING UNIVERSAL WATER,
SANITATION AND HYGIENE UNDER THE
SUSTAINABLE DEVELOPMENT GOALS

UN-Water Global Analysis and Assessment of Sanitation and Drinking-Water
GLAAS 2017 Report



UN-Water Global Analysis
and Assessment of Sanitation
and Drinking-Water

JMP classification of improved and unimproved facility types

	DRINKING WATER ²	SANITATION
Improved facilities	<p>Piped supplies</p> <ul style="list-style-type: none"> • Tap water in the dwelling, yard or plot • Public standposts <p>Non-piped supplies</p> <ul style="list-style-type: none"> • Boreholes/tubewells • Protected wells and springs • Rainwater • Packaged water, including bottled water and sachet water • Delivered water, including tanker trucks and small carts 	<p>Networked sanitation</p> <ul style="list-style-type: none"> • Flush and pour flush toilets connected to sewers <p>On-site sanitation</p> <ul style="list-style-type: none"> • Flush and pour flush toilets or latrines connected to septic tanks or pits • Ventilated improved pit latrines • Pit latrines with slabs • Composting toilets, including twin pit latrines and container-based systems
Unimproved facilities	<p>Non-piped supplies</p> <ul style="list-style-type: none"> • Unprotected wells and springs 	<p>On-site sanitation</p> <ul style="list-style-type: none"> • Pit latrines without slabs • Hanging latrines • Bucket latrines
No facilities	Surface water	Open defecation

Table 1-1

SERVICE LEVEL	DEFINITION
SAFELY MANAGED	Drinking water from an improved water source that is located on premises, available when needed and free from faecal and priority chemical contamination
BASIC	Drinking water from an improved source, provided collection time is not more than 30 minutes for a round trip, including queuing
LIMITED	Drinking water from an improved source for which collection time exceeds 30 minutes for a round trip, including queuing
UNIMPROVED	Drinking water from an unprotected dug well or unprotected spring
SURFACE WATER	Drinking water directly from a river, dam, lake, pond, stream, canal or irrigation canal

Note: Improved sources include: piped water, boreholes or tubewells, protected dug wells, protected springs, and packaged or delivered water.

SERVICE LEVEL	DEFINITION
SAFELY MANAGED	Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or transported and treated offsite
BASIC	Use of improved facilities that are not shared with other households
LIMITED	Use of improved facilities shared between two or more households
UNIMPROVED	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines
OPEN DEFECATION	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open spaces, or with solid waste

Note: improved facilities include flush/pour flush to piped sewer systems, septic tanks or pit latrines; ventilated improved pit latrines, composting toilets or pit latrines with slabs.

SERVICE LEVEL**DEFINITION****BASIC**

Availability of a handwashing facility on premises with soap and water

LIMITED

Availability of a handwashing facility on premises without soap and water

NO FACILITY

No handwashing facility on premises

Note: Handwashing facilities may be fixed or mobile and include a sink with tap water, buckets with taps, tippy-taps, and jugs or basins designated for handwashing. Soap includes bar soap, liquid soap, powder detergent, and soapy water but does not include ash, soil, sand or other handwashing agents.

MAIN DATA SOURCES

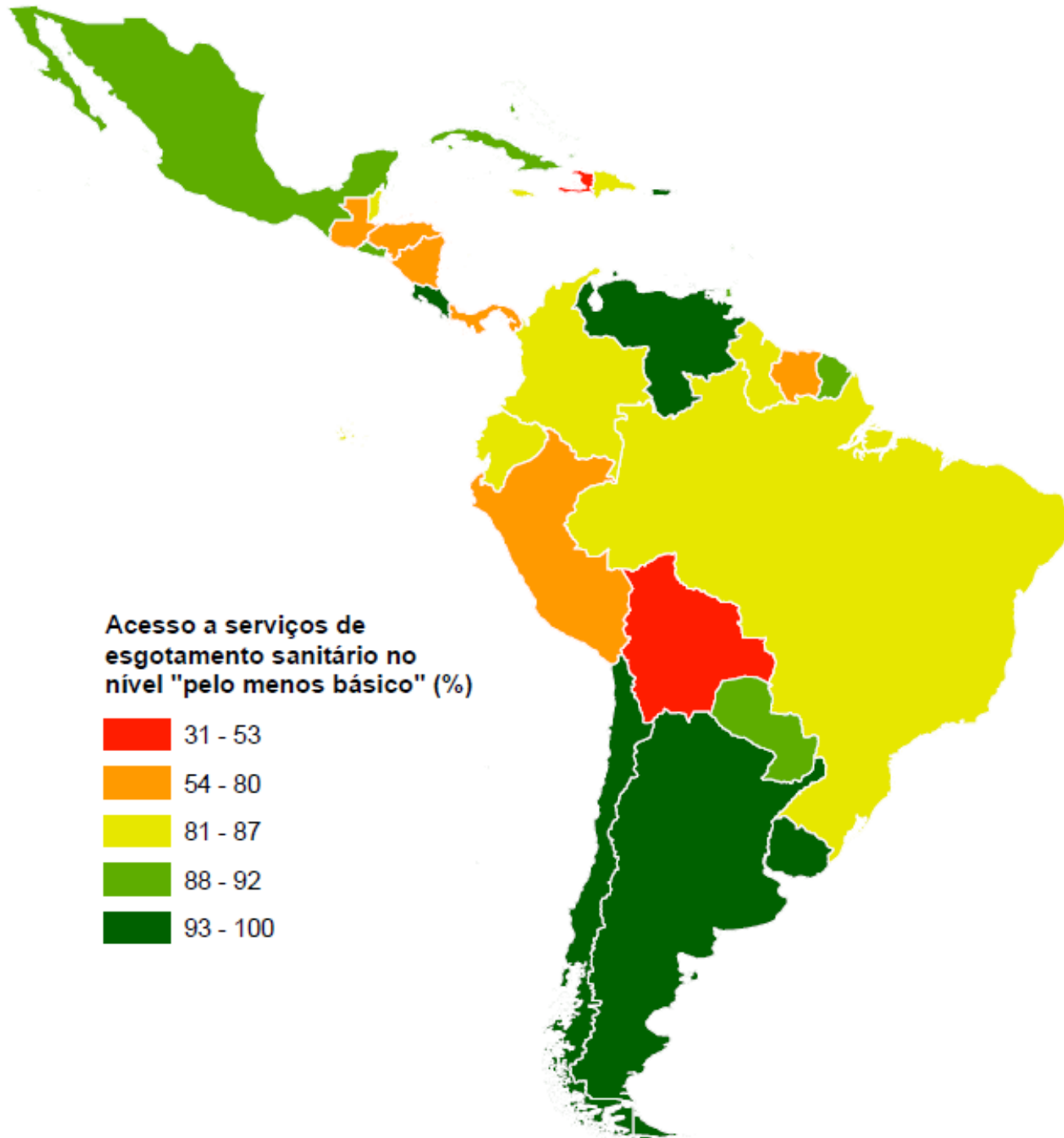
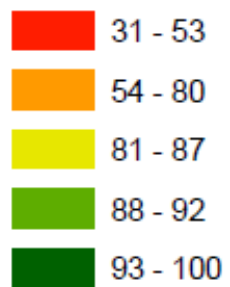
- JMP (Joint Monitoring Program)
- GLAAS (Global Analysis and Assessment of Sanitation and Drinking-Water – UN-Water/OMS)
- Multiple Indicator Cluster Surveys (MICS)
- Demographic and Health Surveys (DHS)
- IPUMS-International Project (MPS)
- IBNET (The International Benchmarking Network for Water and Sanitation Utilities)

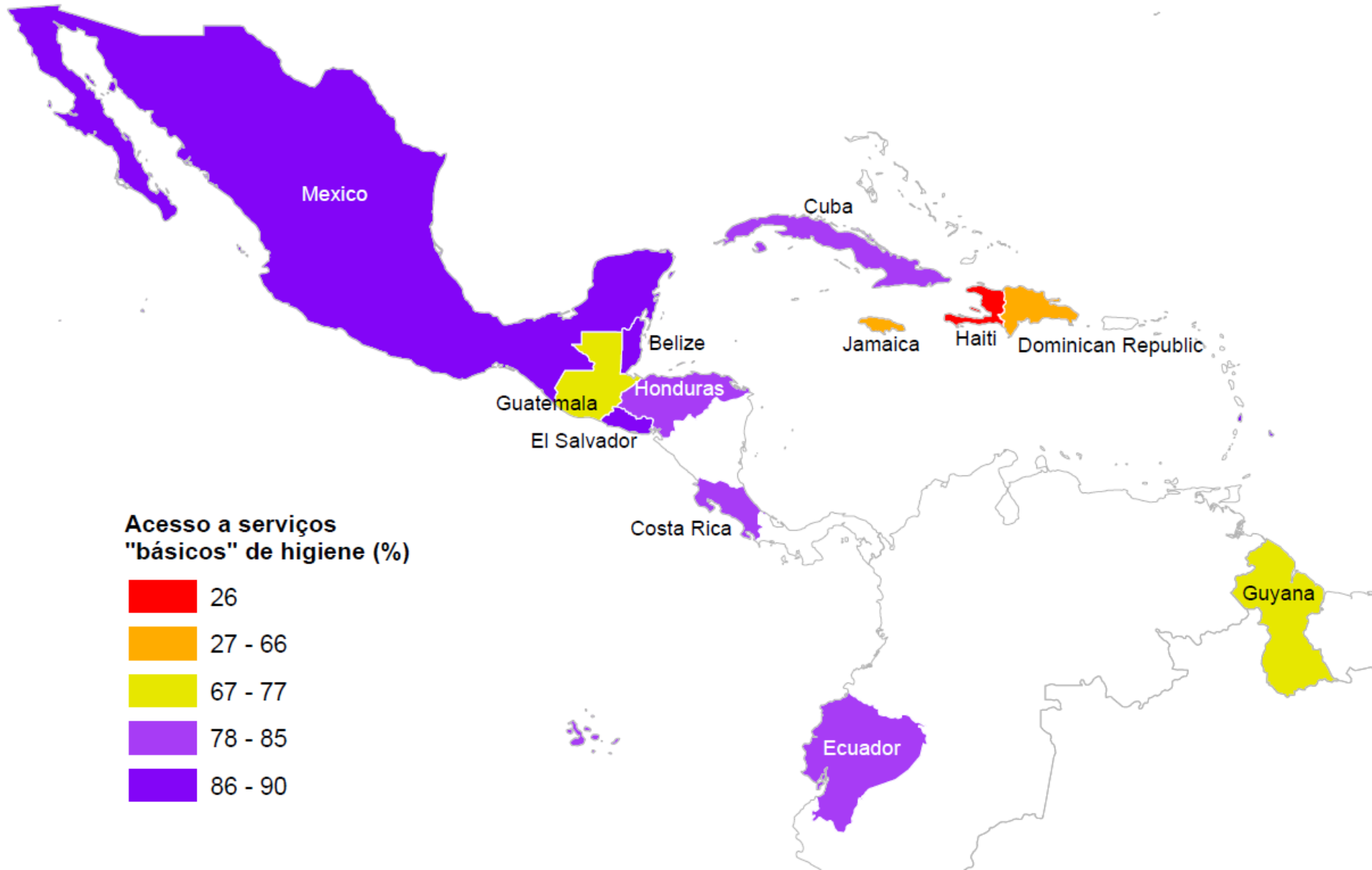






**Acesso a serviços de
esgotamento sanitário no
nível "pelo menos básico" (%)**



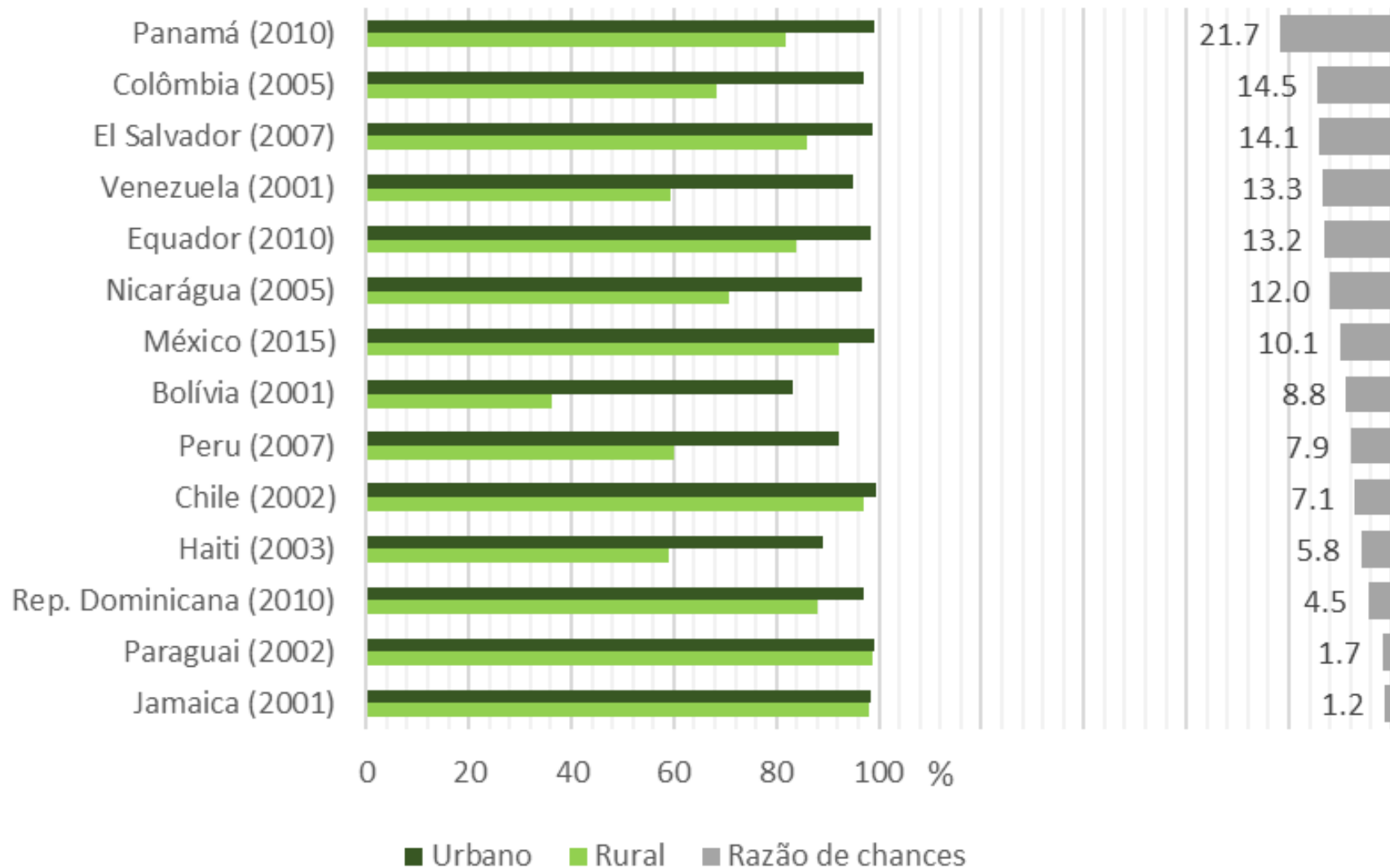


Inequalities in the access to water supply, sanitation and hygiene services

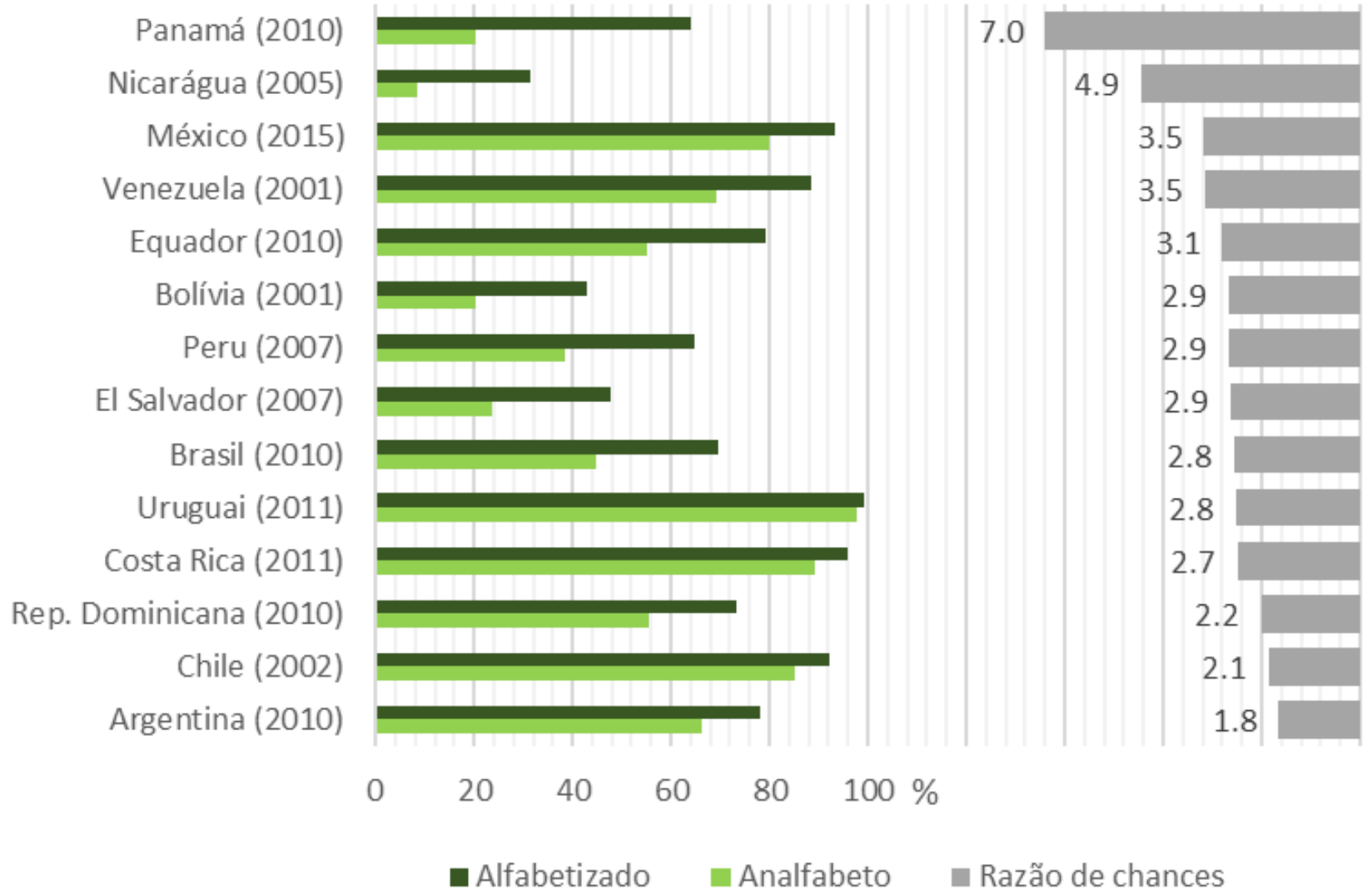
Multiple criteria for disaggregation of the population in subgroups:

- *Urban and rural areas*
- *Literacy status*
- *Household head educational attainment*
- *Indigenous status*
- *Race*
- *Sex and age*
- *Wealth*

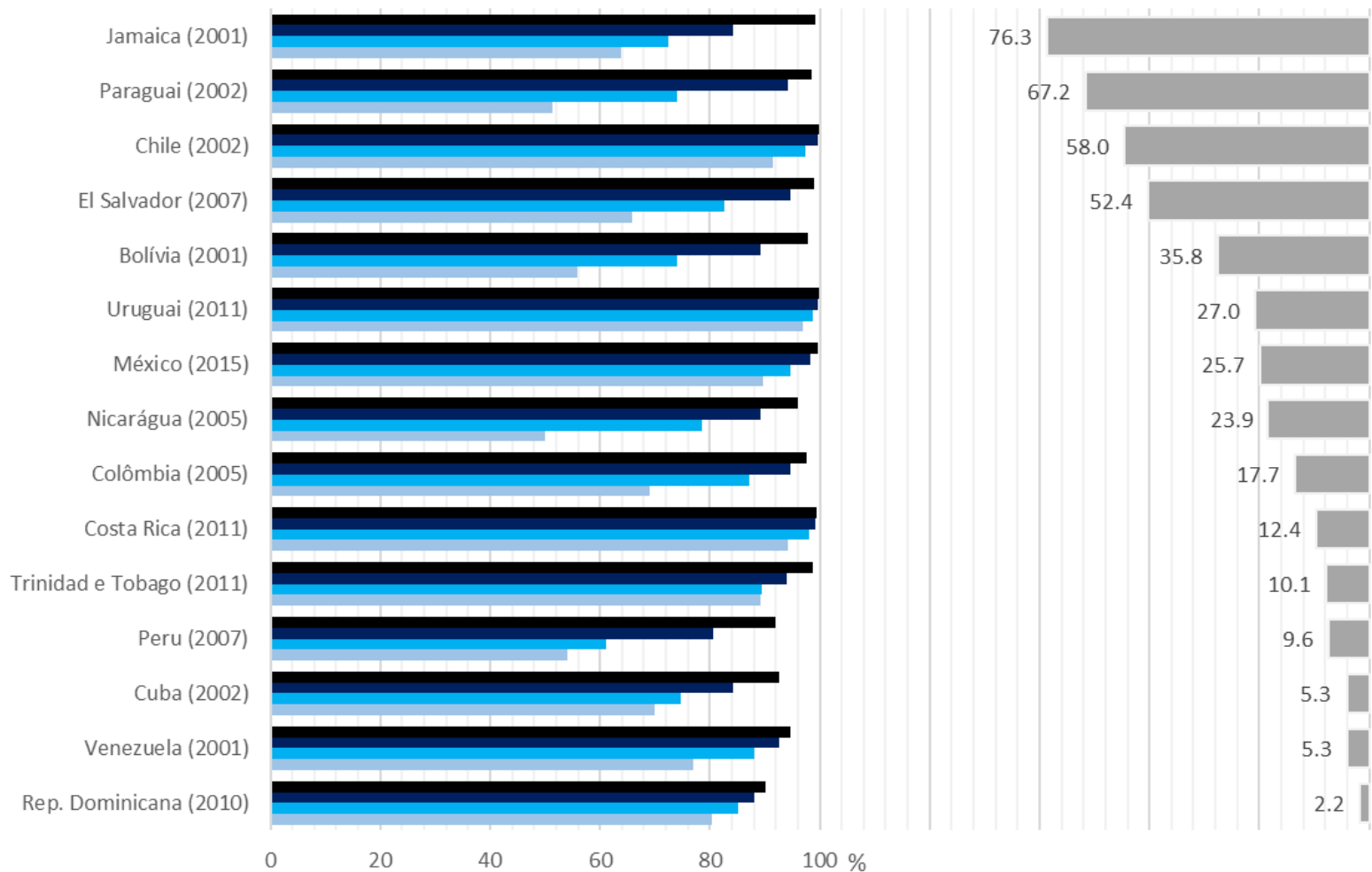
Access to toilet by Rural-Urban Status (%)



Access to sewage systems or septic tanks by Literacy Status (%)

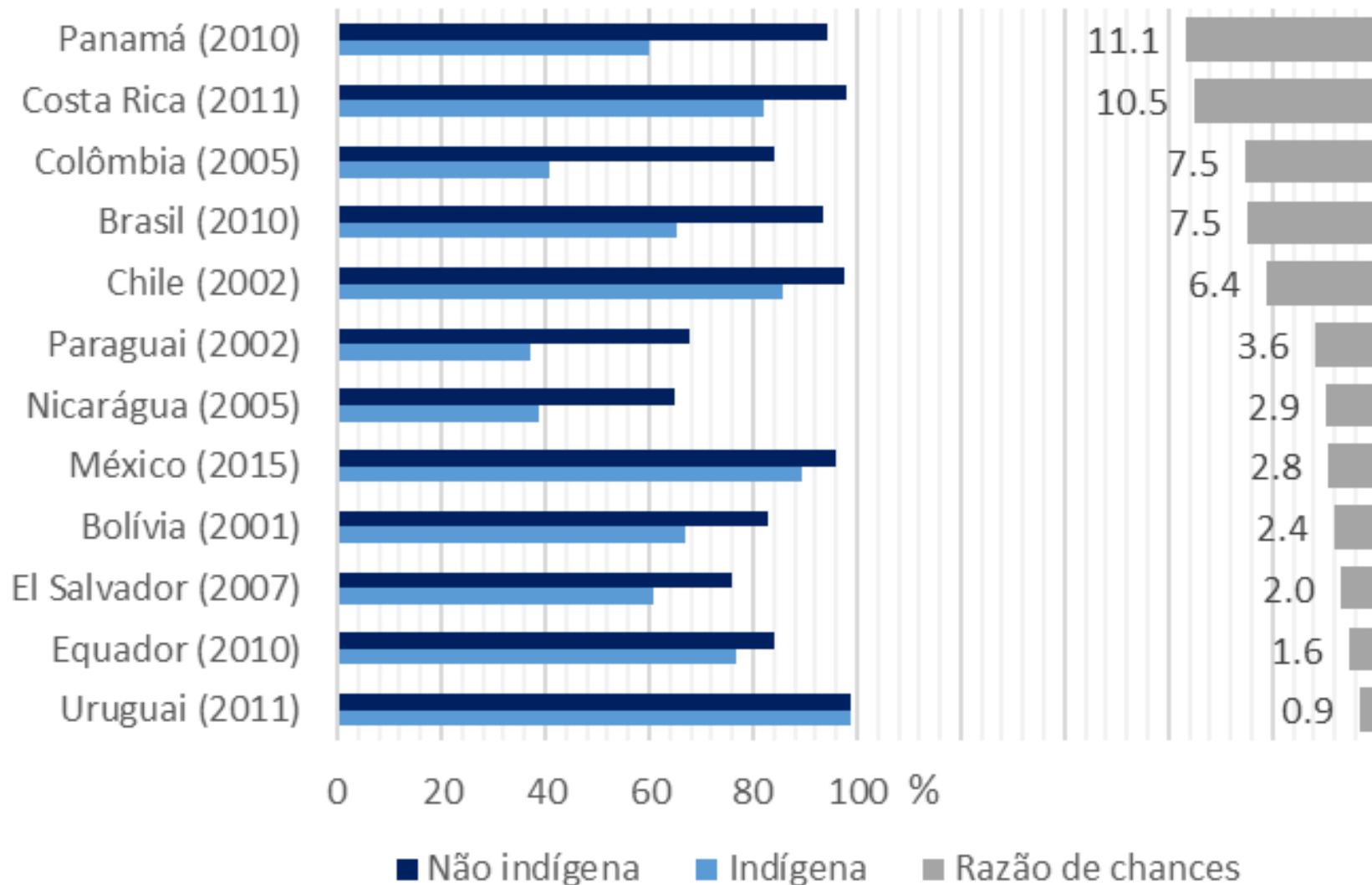


Access to piped water by Educational Attainment of Household Head Status (%)

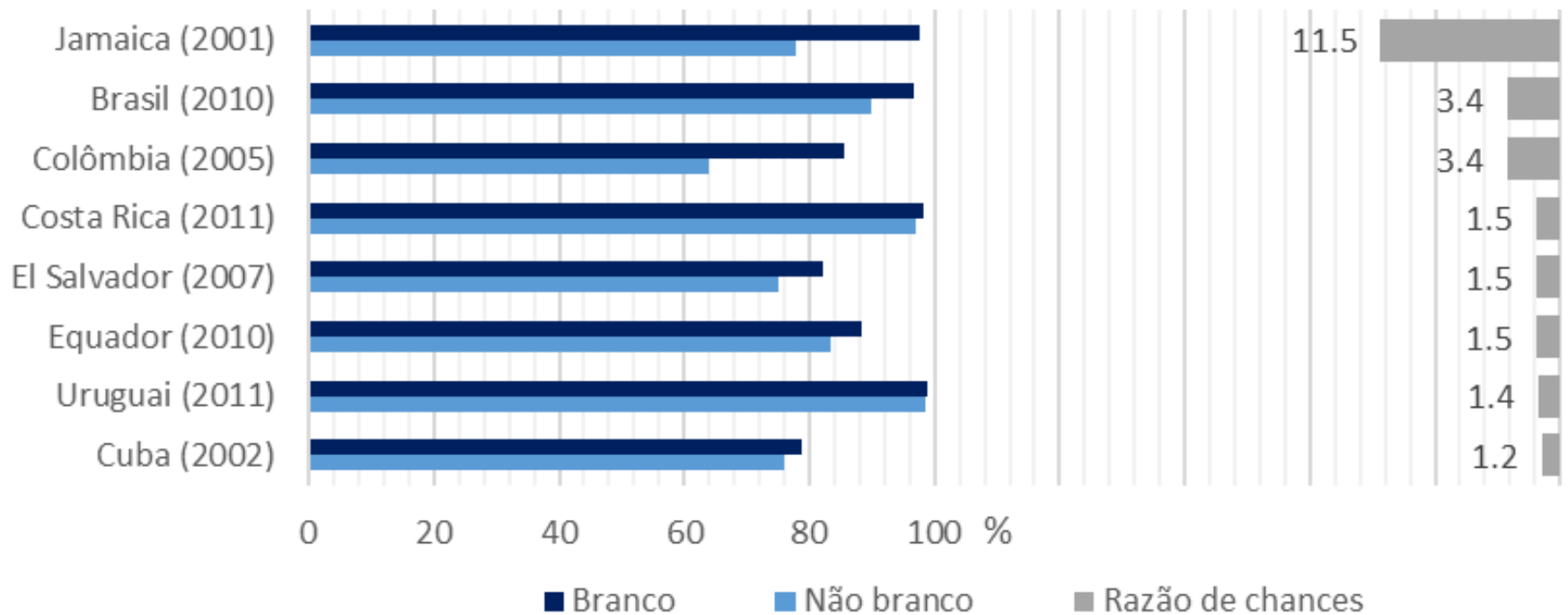


Source: IPUMS/MPC (2018)

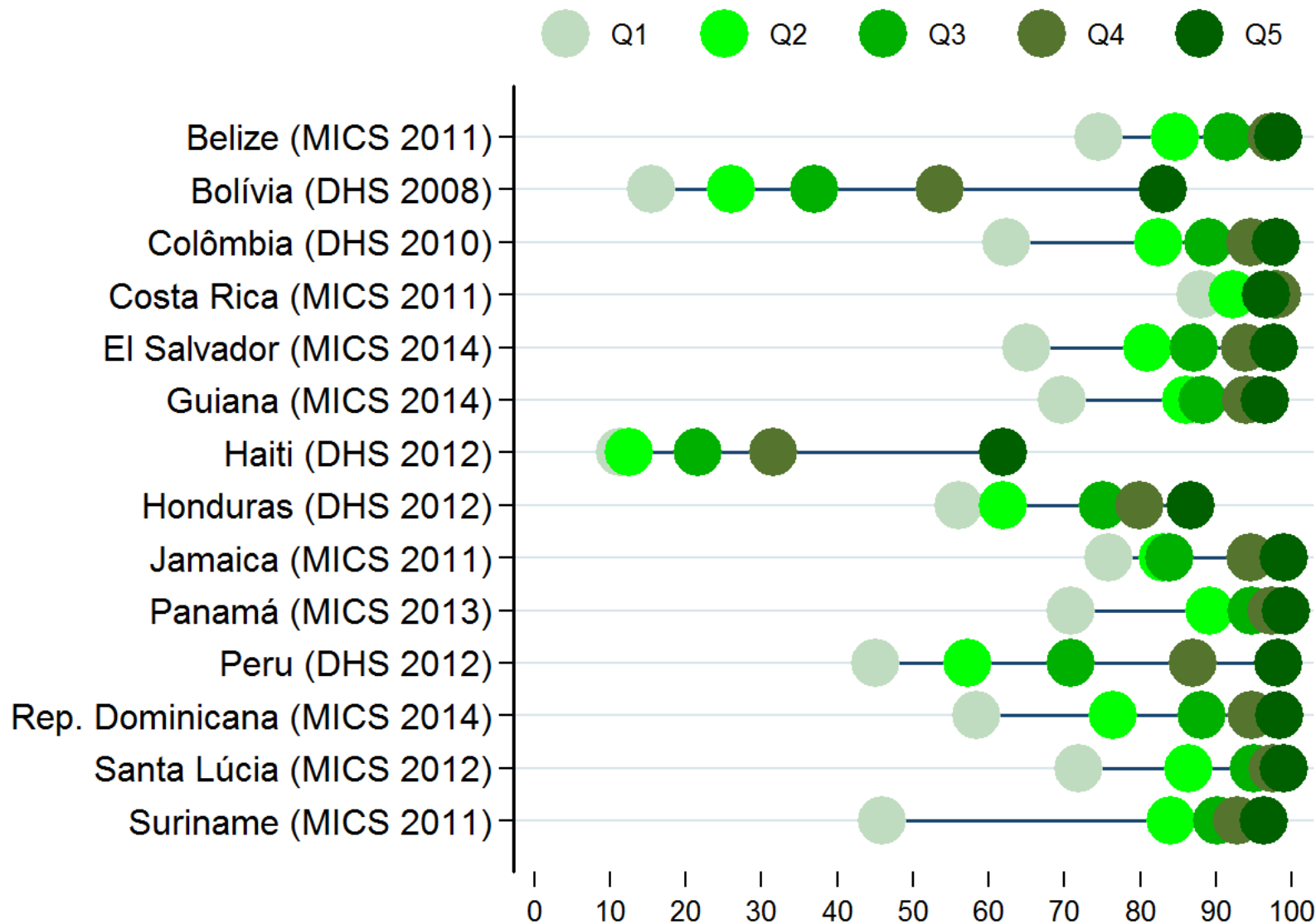
Access to piped water by Indigenous Status (%)



Access to piped water by race (%)

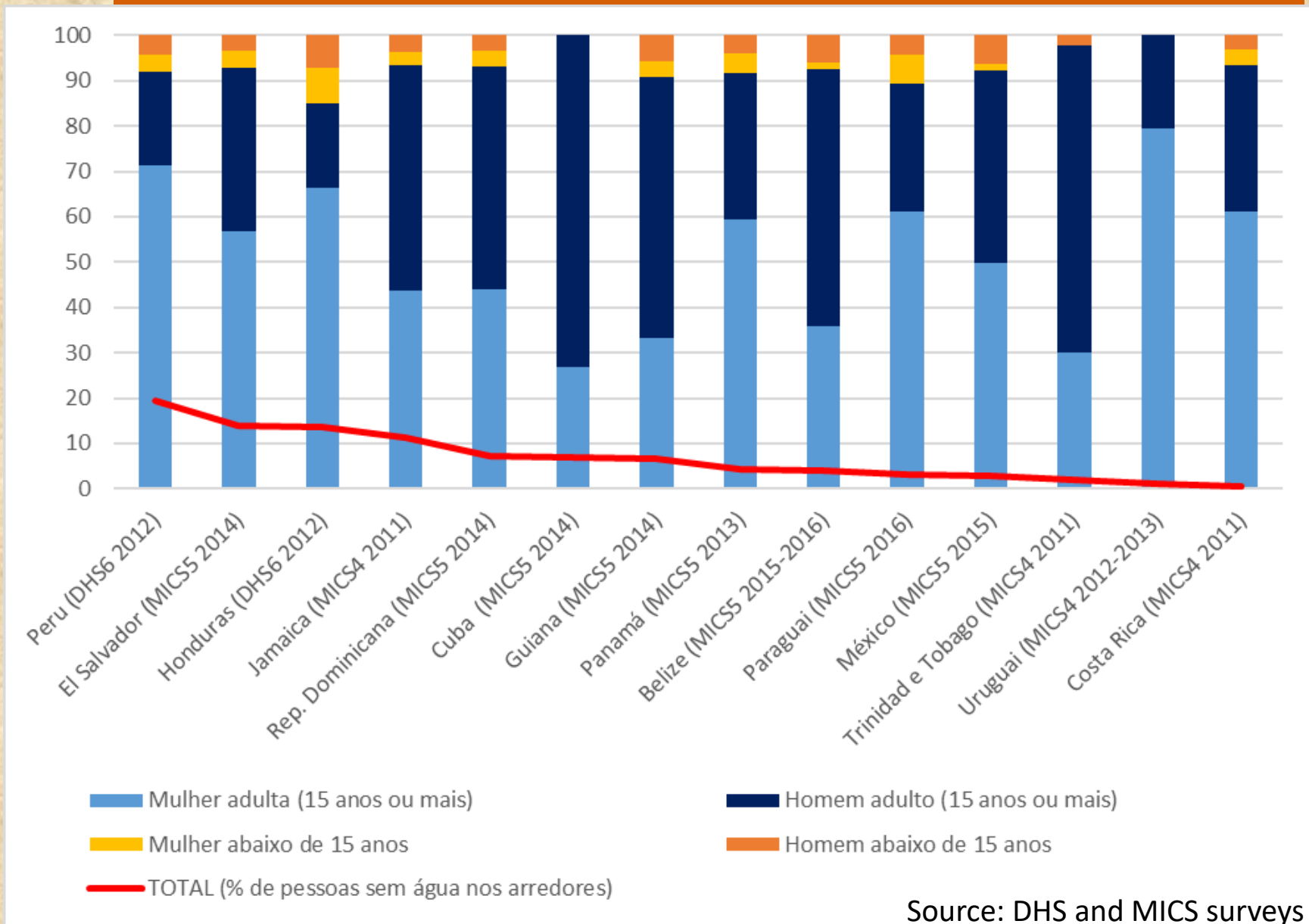


Access to “at least basic” services of sanitation by wealth quintiles



Source: IPUMS/MPC (2018)

Proportion of the population without water on premises and main person responsible for collecting water



Source: DHS and MICS surveys

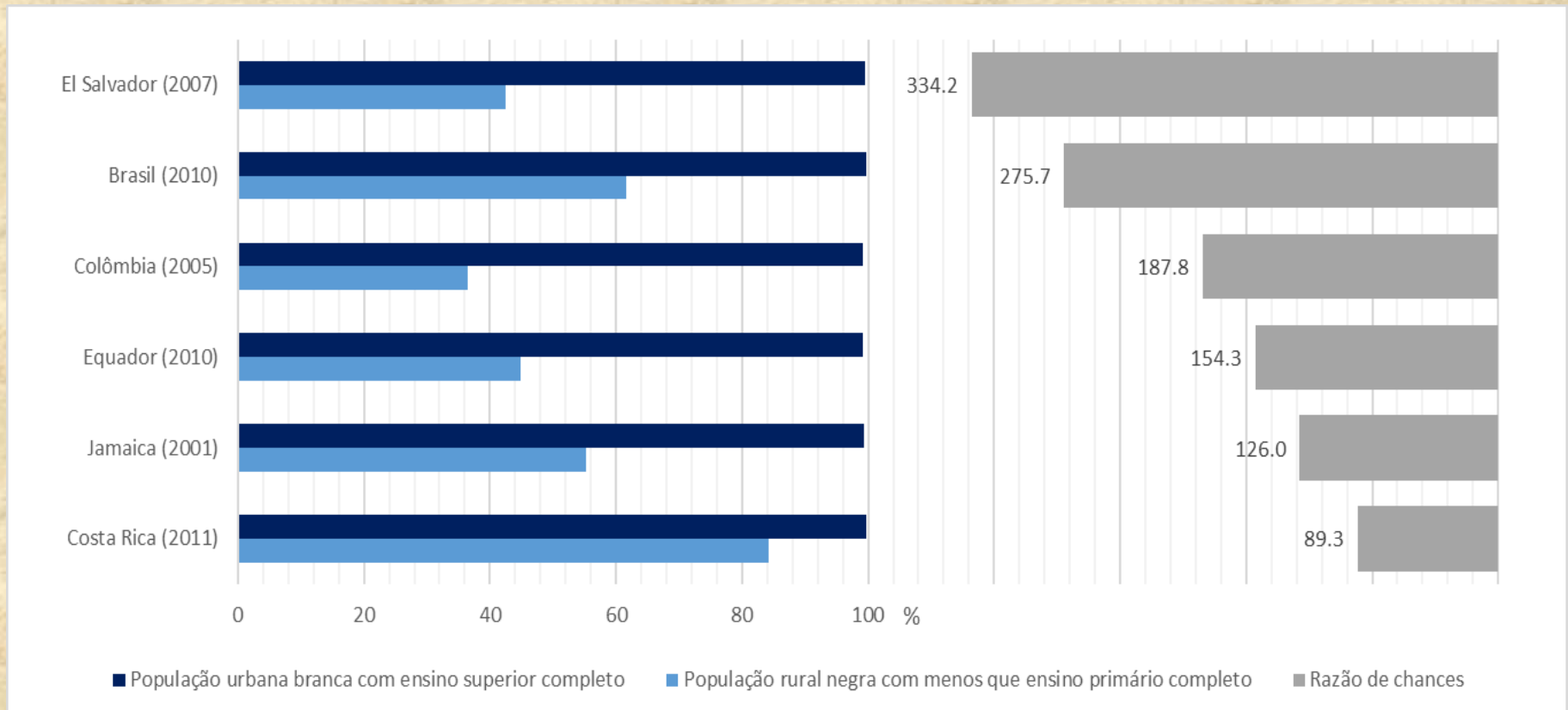
MULTIPLE LAYERS OF INEQUALITY

Access to piped water by

White urban population with complete higher education

X

Black rural population with less than complete primary education



Source: IPUMS/MPC (2018)

Water and Sanitation Access Adjusted by Inequality

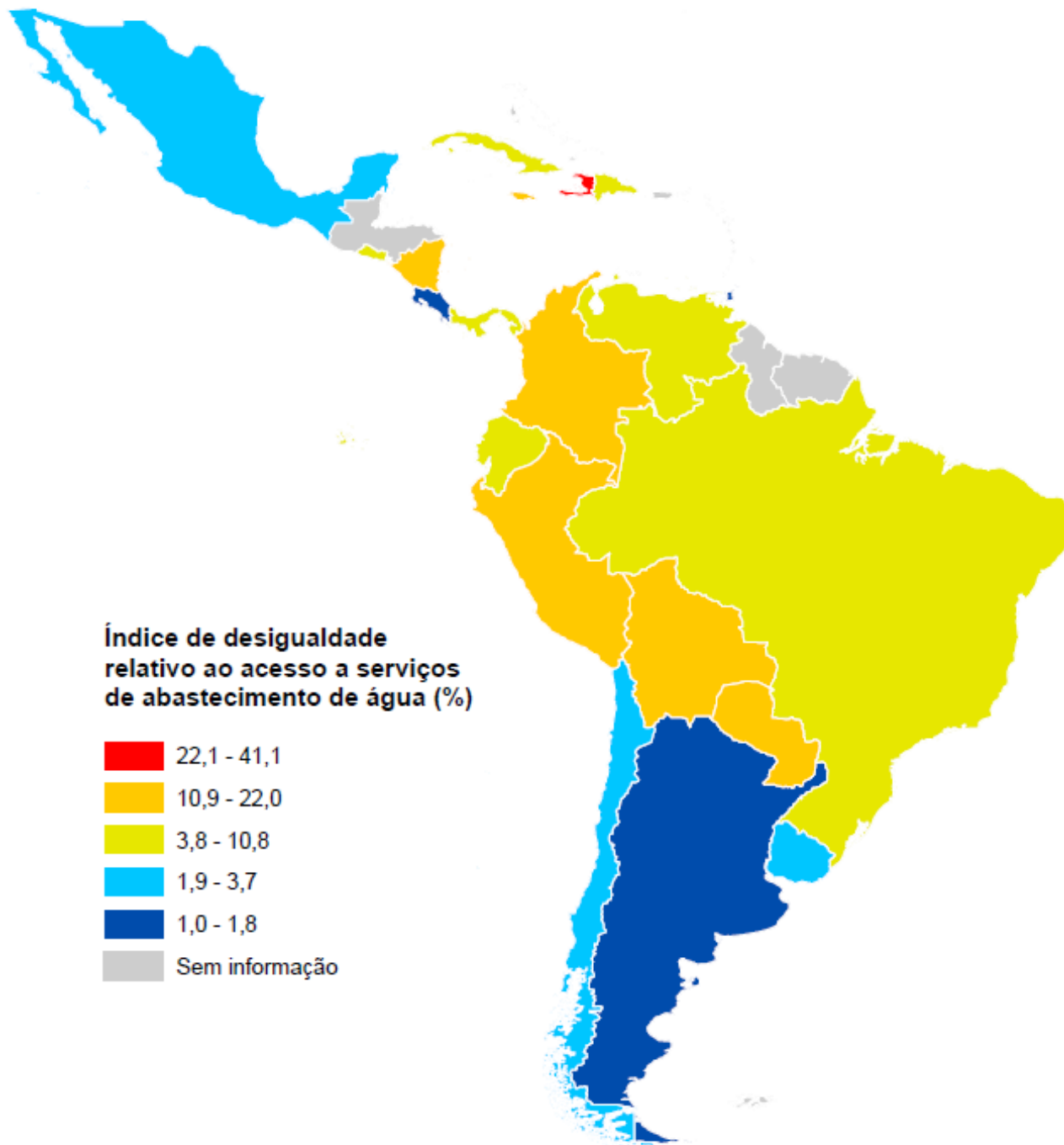
Water Access Adjusted by inequality

$$AAAD = A_A \cdot (1 - D_A)$$

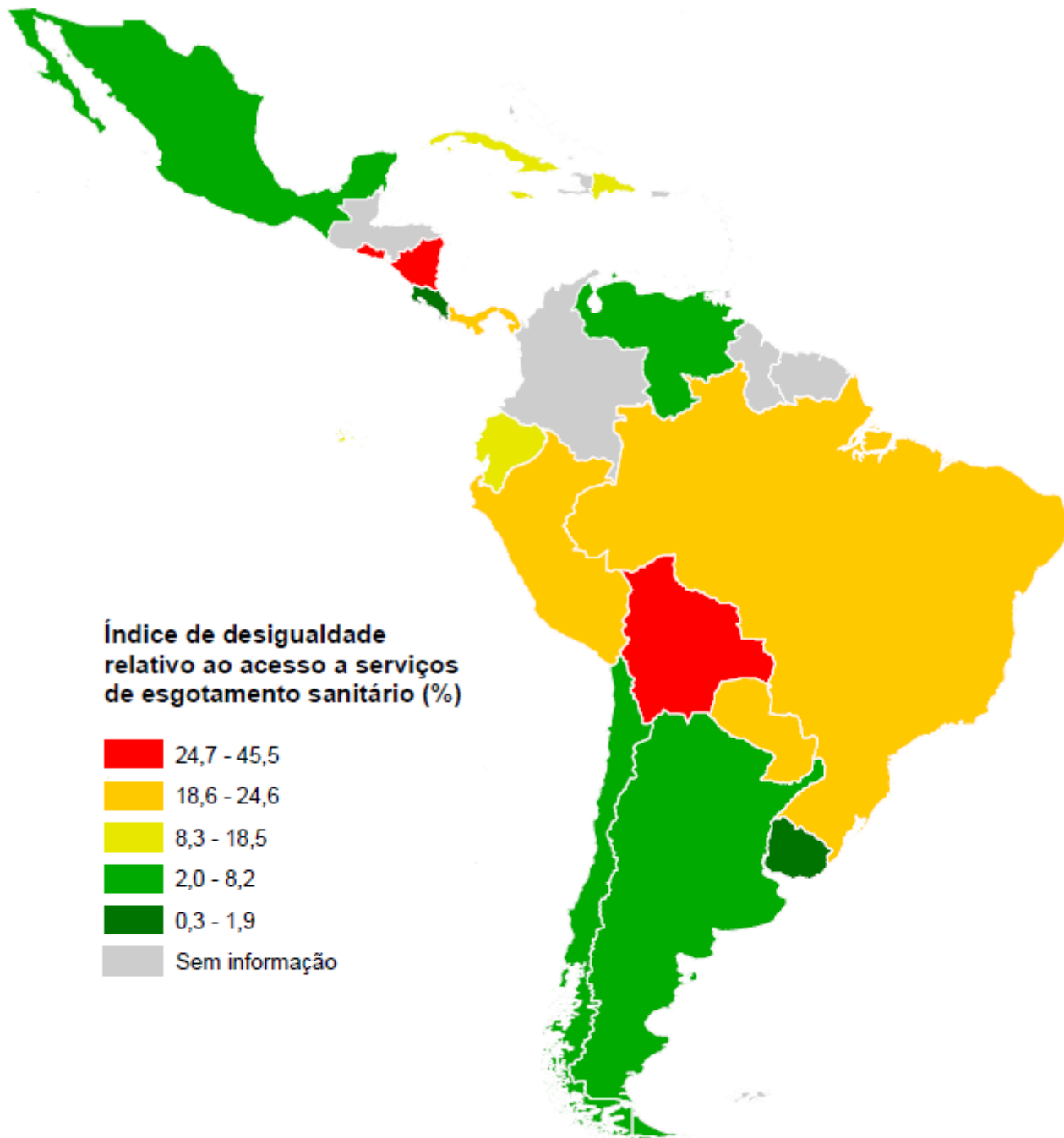
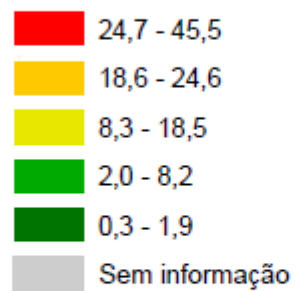
Sanitation Access Adjusted by inequality

$$AEAD = A_E \cdot (1 - D_E)$$

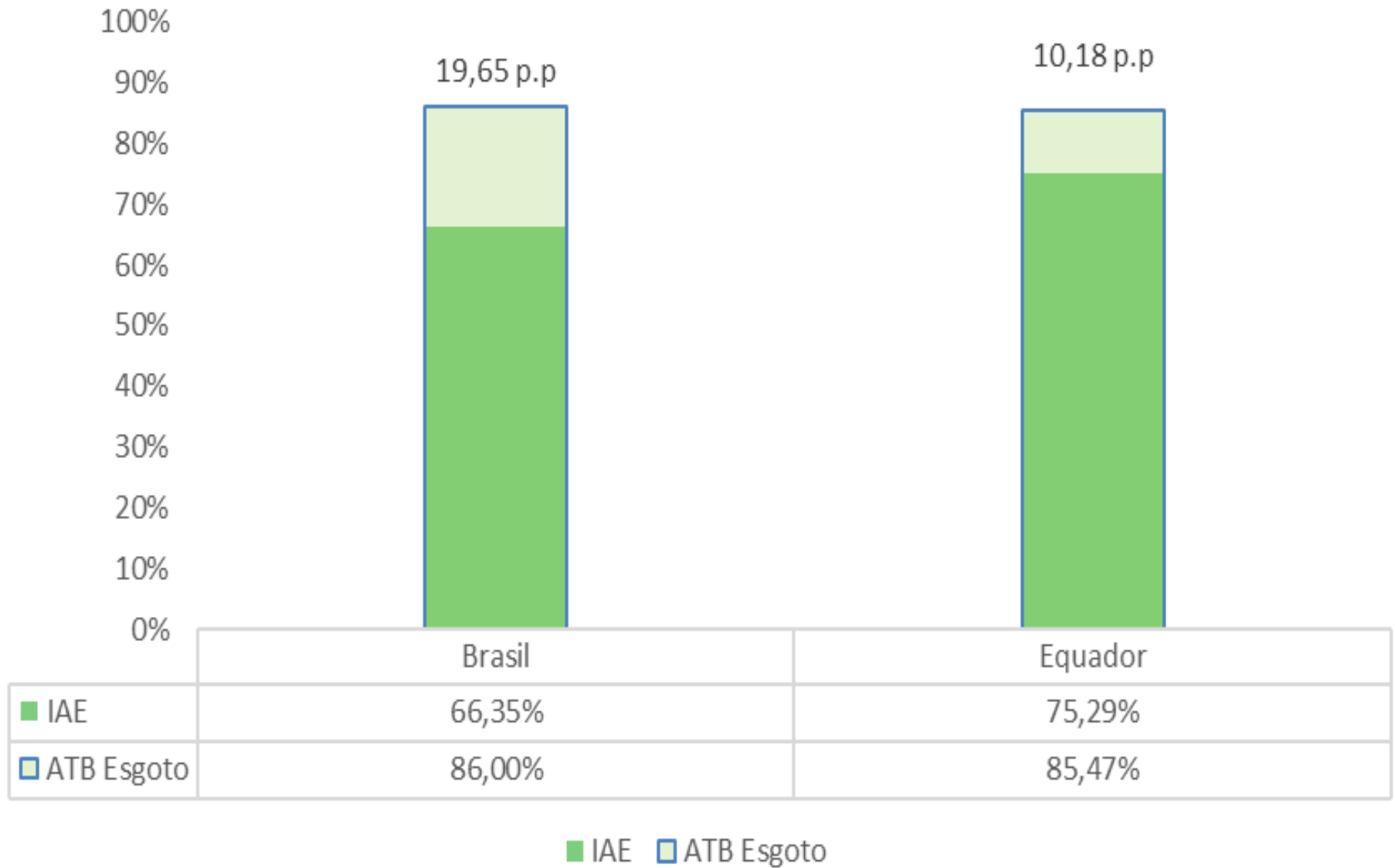
These indexes calculate the access rate *weighted by the way access to services are distributed*. If there is no inequality, the variable D equals zero. Therefore, the part of the equation $(1 - D)$ *acts as a reducer, or a way to penalize inequalities*.



**Índice de desigualdade
relativo ao acesso a serviços
de esgotamento sanitário (%)**



Example: “At least basic” sanitation services Access Adjusted by Inequality



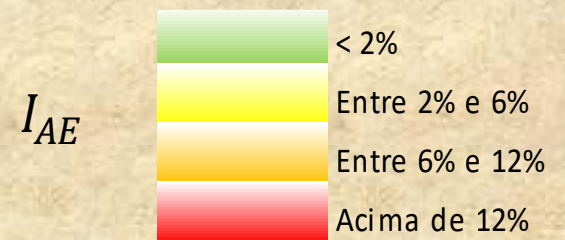
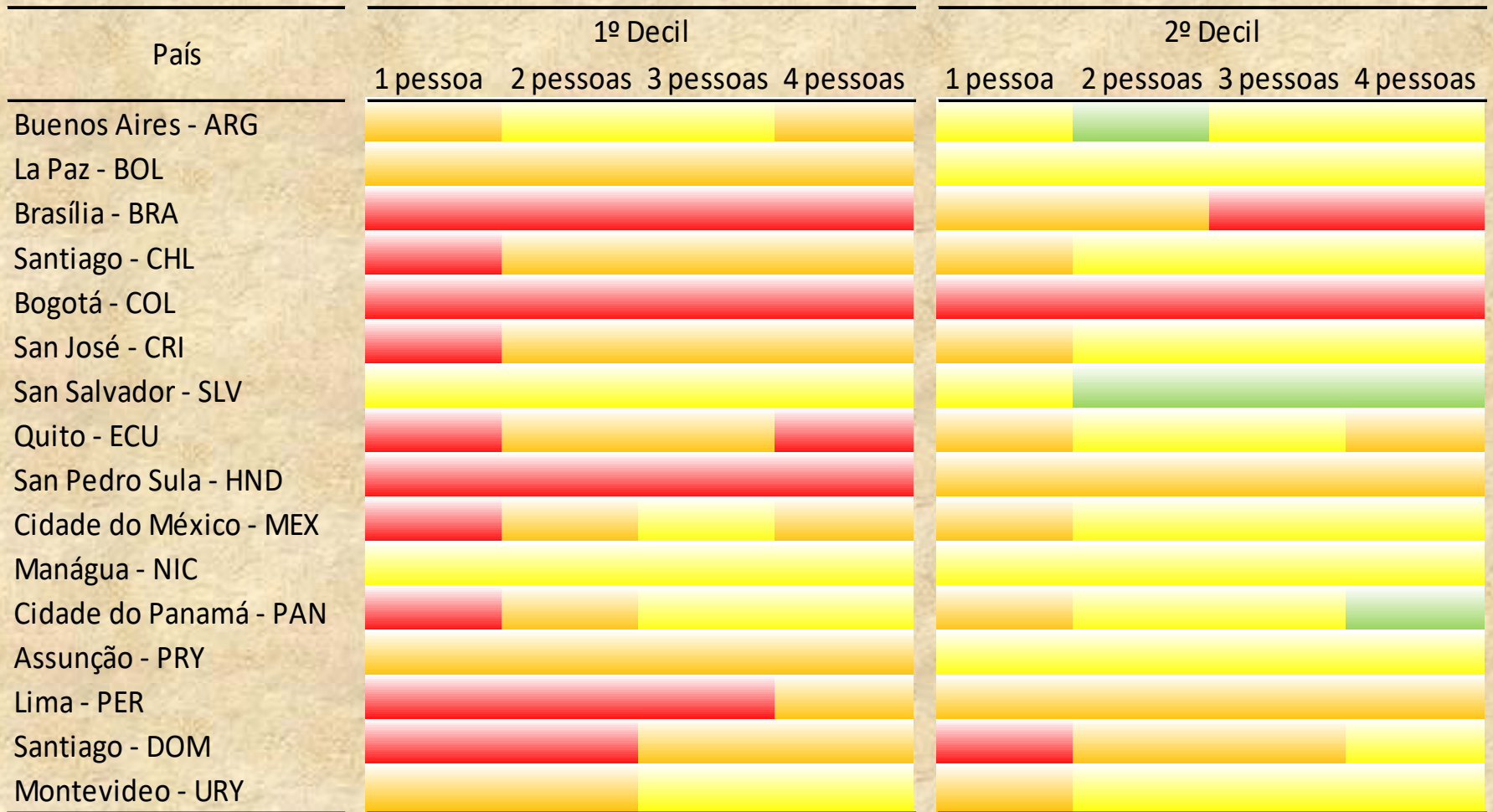
AFFORDABILITY

Indicator:

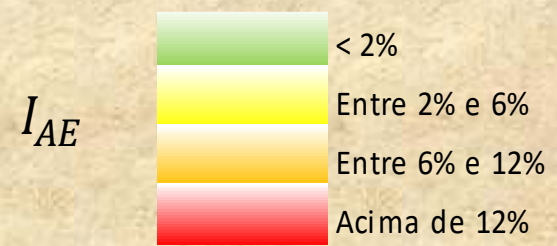
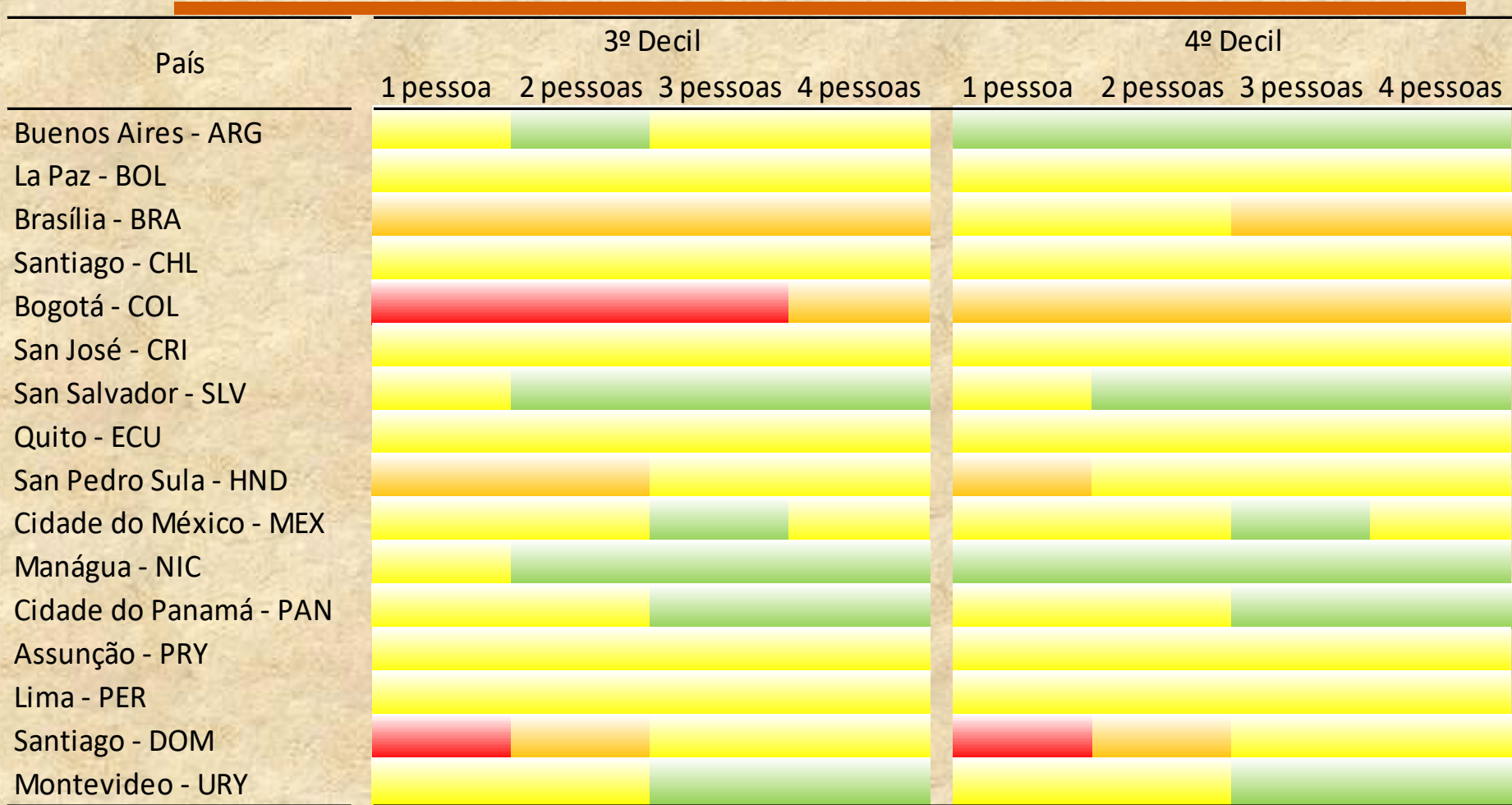
$$I_{AE} = n \frac{(G_A + G_E)}{R_D}$$

- Definition of a level of *per capita* consumption by month (5m^3)
- Use of IBNET databases to define spending with water and sanitation
- Only the poorest deciles of wealth were considered

AFFORDABILITY



AFFORDABILITY



Institutional evaluation of the WASH sectors

Esgoto - URBANO

Esgoto - RURAL

Água - URBANO

Suficiência de Recursos	mais do que 75% dos recursos necessários	Chile Colômbia Panamá	Peru		mais do que 75% dos recursos necessários	Panamá			mais do que 75% dos recursos necessários	Argentina Chile Colômbia Haiti Panamá	Paraguai Peru	
	entre 50% e 75% dos recursos necessários	Argentina Cuba	Brasil		entre 50% e 75% dos recursos necessários	Cuba Honduras	Brasil Paraguai		entre 50% e 75% dos recursos necessários	Cuba Rep. Dominicana	Brasil Venezuela	Costa Rica
	menos do que 50% dos recursos necessários	Rep. Dominicana Haiti Honduras Jamaica Uruguai	México Paraguai Venezuela	Costa Rica	menos do que 50% dos recursos necessários	Argentina Chile Colômbia Rep. Dominicana El Salvador Haiti Jamaica	México Peru Venezuela	Costa Rica	menos do que 50% dos recursos necessários	Honduras Jamaica Uruguai	México	
	Não existem medidas	Existem medidas, mas não são aplicadas constantemente	Existem medidas e são aplicadas constantemente		Não existem medidas	Existem medidas, mas não são aplicadas constantemente	Existem medidas e são aplicadas constantemente		Não existem medidas	Existem medidas, mas não são aplicadas constantemente	Existem medidas e são aplicadas constantemente	

Financiamento Vulneráveis

Financiamento Vulneráveis

Financiamento Vulneráveis

Joint evaluation: access data x institutional aspects

98	Argentina / Chile Brasil	Chile	Argentina			Argentina	Chile				Argentina / Chile	
97			Brasil			Brasil				Brasil		
94		Uruguai	Uruguai			Uruguai					Uruguai	
85		Equador		Equador		Equador						
81		Colômbia		Colômbia		Colômbia					Colômbia	
77	El Salvador	El Salvador			El Salvador							
58	Peru		Peru			Peru				Peru		
		Baixo	Moderado	Alto		Não possuem planos	Acordados mas não suficientemente implementados	Planos Acordados e utilizados		menos do que 50% dos recursos necessários	entre 50% e 75% dos recursos necessários	mais do que 75% dos recursos necessários

Água Urbano - Gerido de Forma Segura

Nível de Participação

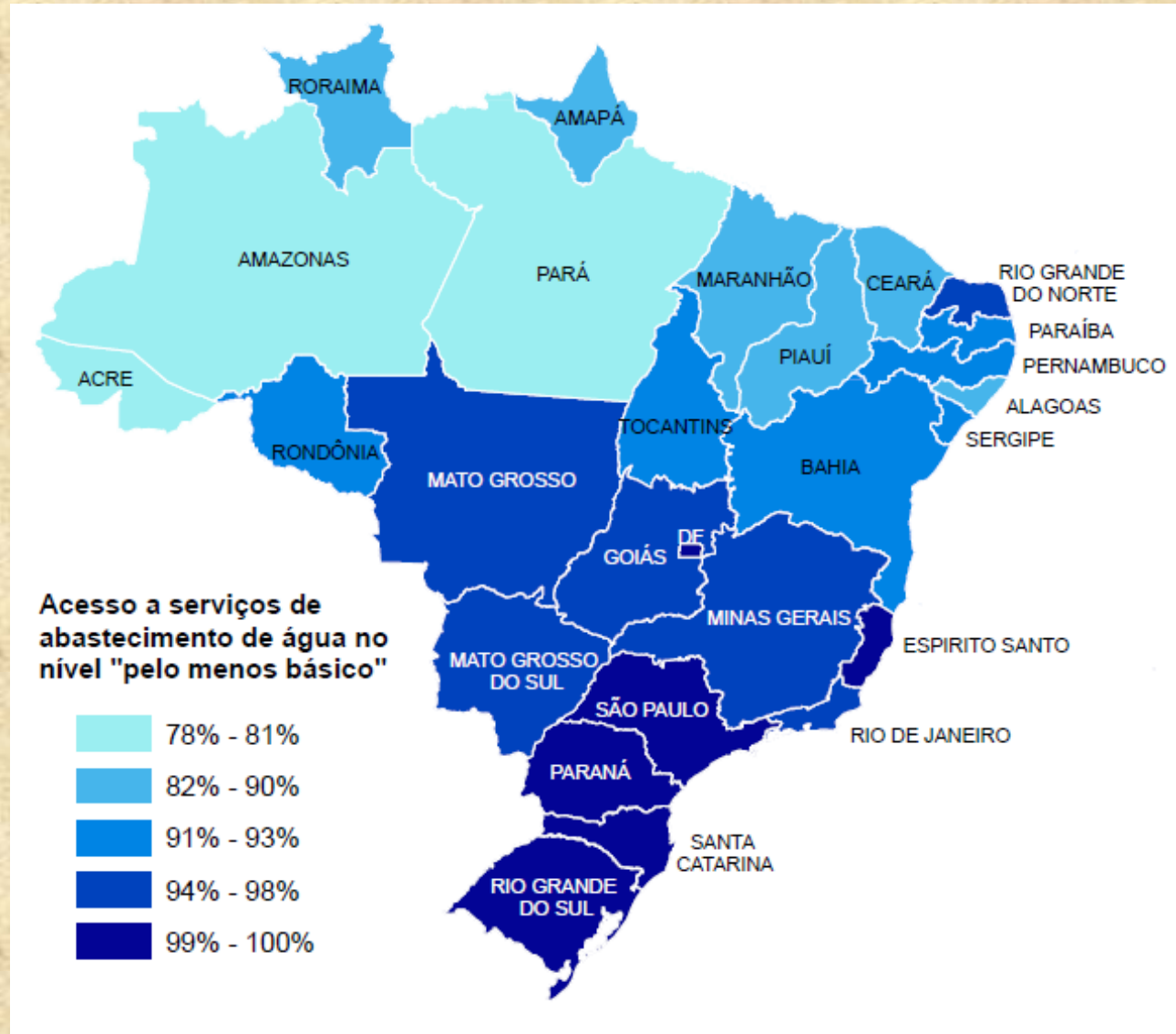
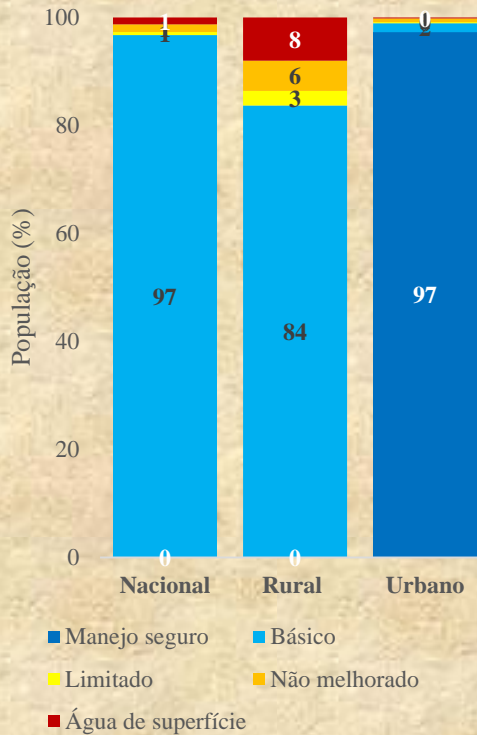
Existência de Plano

Suficiência de Recursos

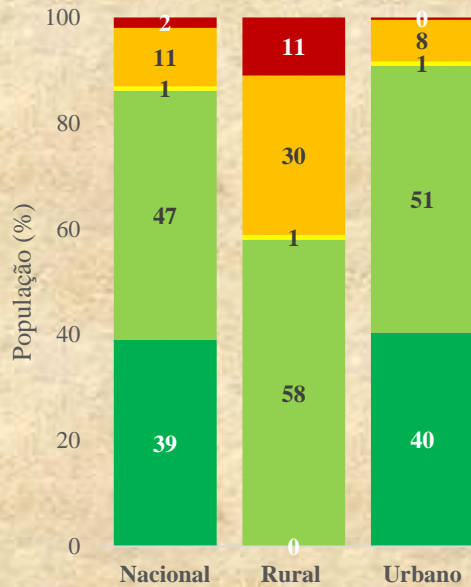
CASE STUDIES

- *Colombia* (Andean countries);
- *Mexico* (North and Central America);
- *Brazil* (Southern Cone);
- *Dominican Republic* (Caribbean).

CASE STUDY - BRAZIL

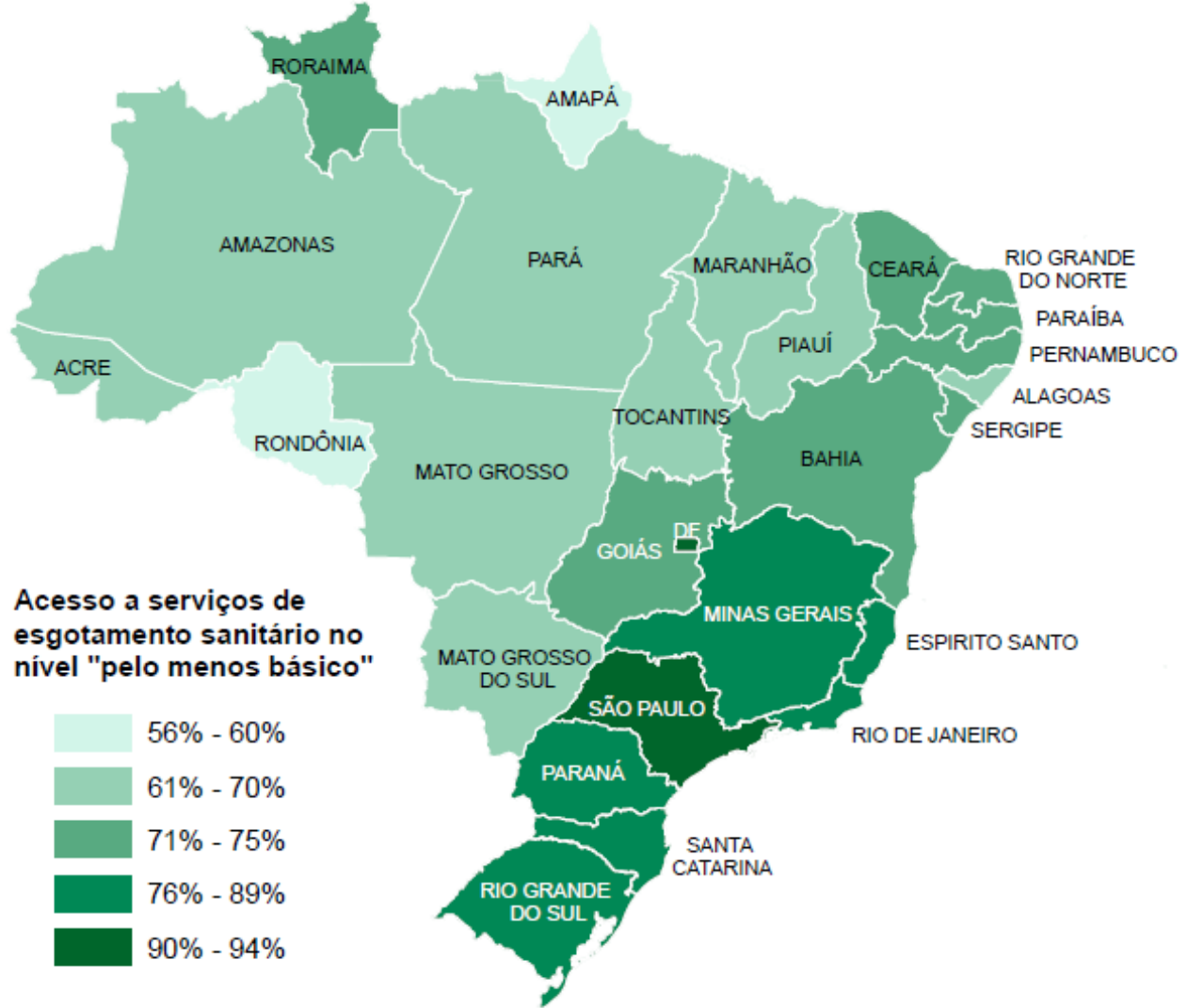
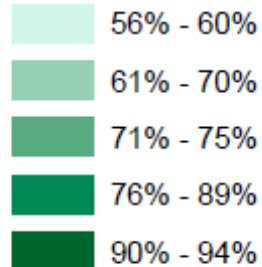


CASE STUDY - BRAZIL



- Defecação a céu aberto
- Não melhorado
- Limitado
- Básico
- Manejo seguro

Acesso a serviços de esgotamento sanitário no nível "pelo menos básico"



FINAL CONSIDERATIONS

The report advanced in many of the recommendations and issues raised by the ***“Task Force on monitoring Inequalities for the 2030 Sustainable Development Agenda”***. More specifically:

- 1) Explicit incorporation of the *human rights framework* in the analysis of the access to WASH services and facilities.
- 2) Use of *different methods of analysis of inequalities*, including a new methodology regarding the evaluation of the Access to Water and Sanitation Adjusted by Inequality
- 3) New strategies to approach the *Affordability* dimension
- 4) *Joint analysis* of institutional aspects and access data to WASH services

THANK YOU!

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MUCHAS GRACIAS!

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OBRIGADO!