



# First Results of the Brazilian Pilot Time Use Survey 2009

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## The Brazilian Institute of Geography and Statistics (IBGE)

IBGE is the federal institute which coordinates the **National Statistical System** and the **National Cartographic System**.

It is present in all 26 states and the Federal District.

It has more than 500 agencies spread in all of the territory.

These agencies work closely with the 5.565 municipalities in the country.



IBGE's local agencies.

- Neuma Aguiar's research: Belo Horizonte (2002) and Campos (1986) - IBGE's consultant in the pilot survey
- Questions in the National Household Sample Survey (PNAD) since 1992 about time dedicated to domestic activities
- Patterns of Life Survey (1996/1997)
- Development of Research Abilities Course (2001)
- 1<sup>st</sup> International Seminar About Time Use Surveys (2007)
- The Committee on Gender and Time Use Studies (since 2008): Secretariat on Policies for Women in Brazil (coordinator); IBGE; IPEA (Institute for Applied Economic Research); and International Labor Organization (ILO) and UNWOMEN as permanent guests

# The 2009 pilot Time Use Survey



- The first big-dimension test of a time use survey in Brazil.
- The pilot was part of a bigger test of an Integrated System of Household Surveys that is being developed by IBGE with the goal of including all of the institute's household surveys.
- IBGE is planning to incorporate the topic of Time Use in the regular schedule of household surveys in the next decade.
- What was tested?
  - Sample design (size, distribution of days of the week, number of respondents per household, age limit)
  - Survey instruments (paper diary and handheld computer)
  - Field procedures
  - Classification of activities
  - Results and indicators

# The 2009 pilot Time Use Survey



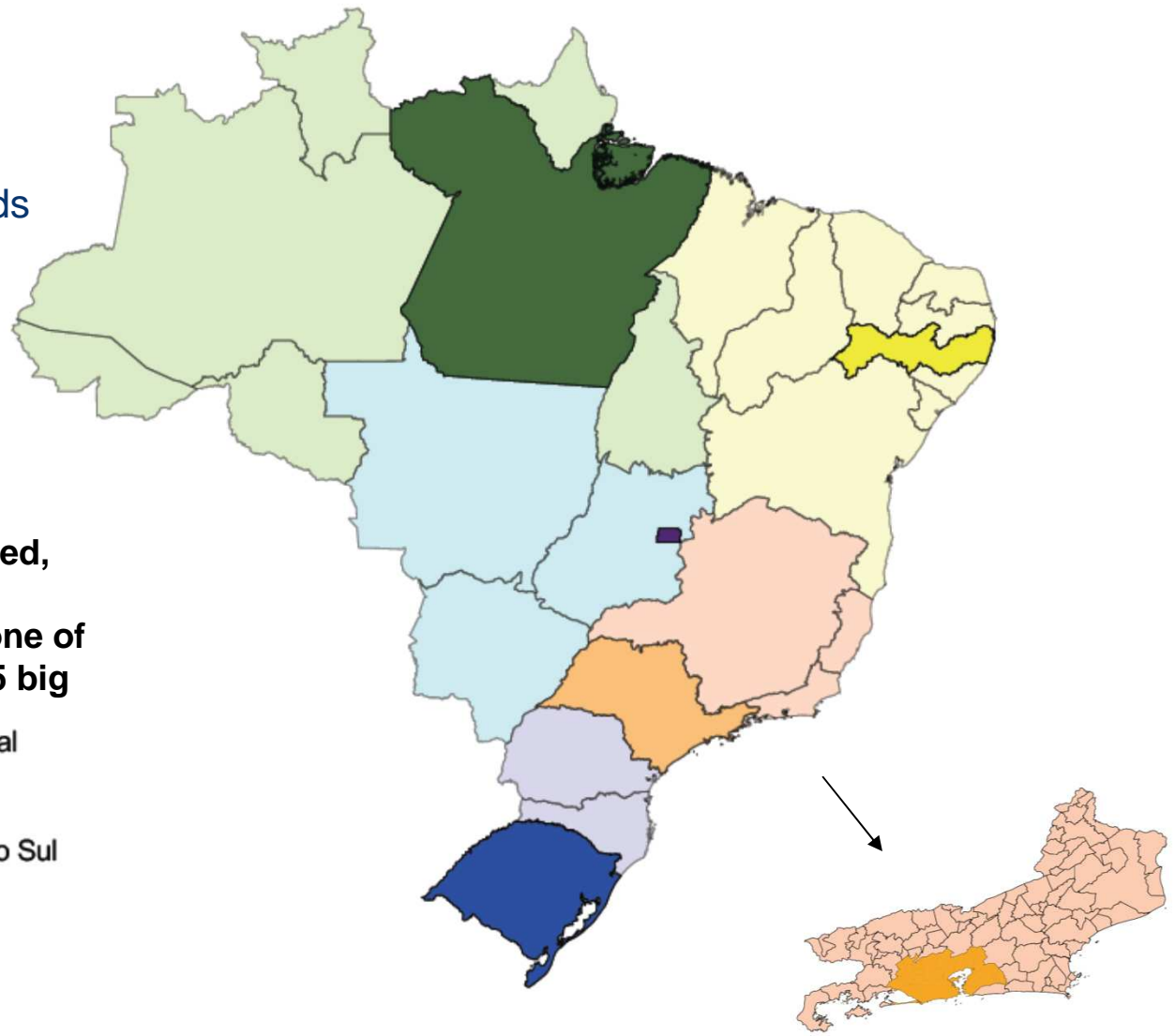
- **Objective**: testing the methodology for application in a future Time Use Survey
  
- **Field period**:
  - October to December 2009 (5 states);
  - October to September 2010 (Rio de Janeiro - Metropolitan Region)
  
- **Reference population**: people aged 10 years or over of the selected regions
  
- **Respondents per household**: 1 person
  
- **Days of the week**: all days were represented equally

# The test sample – “PNAD Contínua”

801 municipalities  
50 thousand households

5 states selected,  
each one  
representing one of  
the country's 5 big  
regions:

- Distrito Federal
- Pará
- Pernambuco
- Rio Grande do Sul
- São Paulo



Rio de Janeiro – Metropolitan Region

# The Time Use pilot survey sub sample

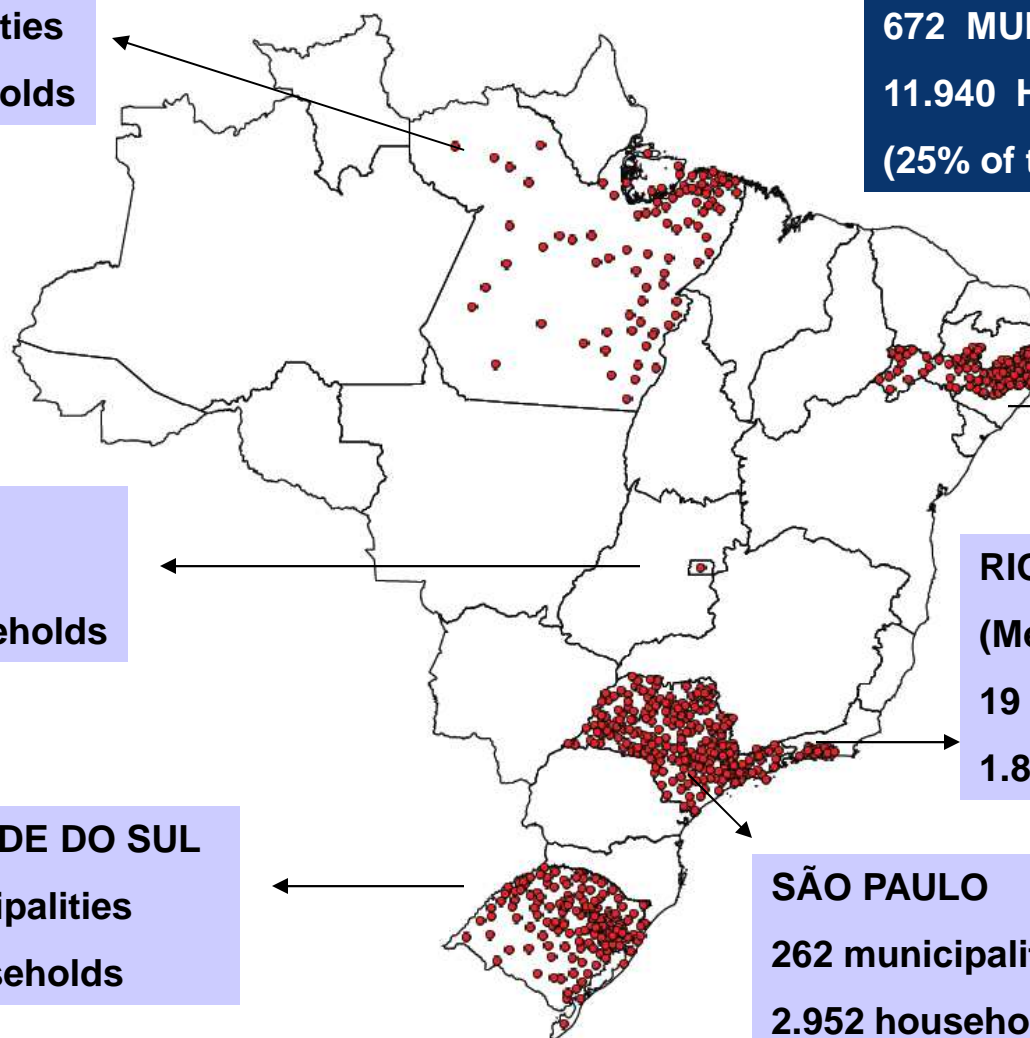


## PARÁ

93 municipalities  
2.016 households

## TOTAL SUB SAMPLE:

672 MUNICIPALITIES  
11.940 HOUSEHOLDS  
(25% of the total sample)



## PERNAMBUCO

127 municipalities  
1.664 households

## DISTRITO FEDERAL

1.560 households

## RIO DE JANEIRO

(Metropolitan Region)  
19 municipalities  
1.848 households

## RIO GRANDE DO SUL

170 municipalities  
1.900 households

## SÃO PAULO

262 municipalities  
2.952 households

# The classification of activities

Based on the ICATUS 2005/United Nations Statistics Division

- Work (includes work for own final use and consumption)
  - Volunteer work
- Work and Volunteer work*
- Housework
  - Care of family members
  - Learning
  - Socializing
- Attending/visiting cultural, entertainment and sports events/venues
  - Hobbies, games and other pastime activities
  - Indoor and outdoor sports participation
- Cultural activities, hobbies and sports*
- Mass media
  - Personal care and maintenance
    - Personal care (except sleeping)
    - Sleeping



## Adaptations to the Brazilian context : Examples

- Creation of a separate subgroup for civic activities such as “voting”, which is classified as “community service” by ICATUS. In Brazil it is a compulsory activity
- Inclusion of typical activities such as “going to the beach” as an outdoor activity, or “carnival” as a socializing activity
- Elimination of some activities that are not practiced in Brazil, such as winter sports

## Field procedures:

Before visiting the households, the interviewers knew which households were selected to answer the TUS and the day of the week assigned to each one.

## First visit:

- The interviewer made the “PNAD Contínua” interview using a handheld computer
- The handheld computer selected one of the household members, aged 10 or over, to answer the TUS
- The selected member received a paper diary to fill in during a specific day of the week
- A **second visit** was scheduled with the respondent

## Second visit:

- The interviewer made a revision of the paper diary and transmitted the information to the handheld computer
- Some questions about the respondent's perception about his/her own time were also made

# Extract of a time use diary used in the test



What are you doing?  
(main activities)

Where?

- 1 At home
- 2 At work/school
- 3 At another place

With whom?

- 1 Alone
- 2 With household members
- 3 With non-household members

Horário	O que você está fazendo?	Onde? Registre um dos seguintes códigos: (1) Em casa (2) No trabalho / na escola (3) Em outro local	Com quem? Registre um dos seguintes códigos: (1) Sozinho (2) Com moradores do domicílio (3) Com não moradores	O que mais você está fazendo neste horário?
de até				
06:00 - 06:15	↓	↓	↓	↓
06:15 - 06:30	preparando refeição	1	1	ouvindo noticiário
06:30 - 06:45	tomando café	1	2	↓
06:45 - 07:00	tomando banho	1	1	
07:00 - 07:15	vestindo criança	1	2	
07:15 - 07:30	levando criança para escola	3	2	ouvindo música
07:30 - 07:45	indo para o trabalho	3	1	↓
07:45 - 08:00	↓	↓	↓	↓
08:00 - 08:15	trabalhando	2	3	
08:15 - 08:30	↓	↓	↓	
08:30 - 08:45				
08:45 - 09:00	↓	↓	↓	

What else are you doing at this time?  
(simultaneous activities)

15-minute intervals

# Some features of the handheld computer

Lancamento

1 de 1

De: [ ] Até: [ ]

Duração: [ ]

Atividade: [ ]

Principal  Secundária

Cancel [ ] [ ] [ ]

Horários Pendentes Resumo

Quest. Inicial Quest. Final

Lancamento

1 de 1

De: 00:00 Até: 08:00

Duração: 08:00

Atividade: [ ]

Principal  Secundária

Horários Pendentes Resumo

Quest. Inicial Quest. Final

Lancamento

1 2 3 4 5 6 7 8 9 0

Q W E R T Y U I O P

A S D F G H J K L

Z X C V B N M Espaço

DORM

colocando criança da familia para dormir

dormindo

preparando-me para dormir

sendo preparado para dormir

Completar

Limpar Cancel << OK

Lancamento

1 2 3 4 5 6 7 8 9 0

Q W E R T Y U I O P

A S D F G H J K L

Z X C V B N M Espaço

CRIA

ajudando criança da familia

alimentando criança da familia

amamentando criança da familia

arrumando criança da familia

Completar

Limpar Cancel << OK

75% of the activities were precodified with this method

**1. How often do you feel you don't have enough time for the activities of your daily life?**

Options: Never; almost never; sometimes; always

**2. If you could, to which activity would you like to dedicate more time?**

Options: Attention to yourself; activities with your family; domestic services; work; leisure; other (specify)

**3. How often do you have spare time that you don't know what to do with?**

Options: everyday; some days of the week; on weekends; never

**4. What is the main reason you have spare time that you don't know what to do with?**

Options: No friends or family live near me; Lack of community facilities or services; Transport difficulties; Don't have enough money; sickness; other reasons (specify)

# Some challenges of the field operation

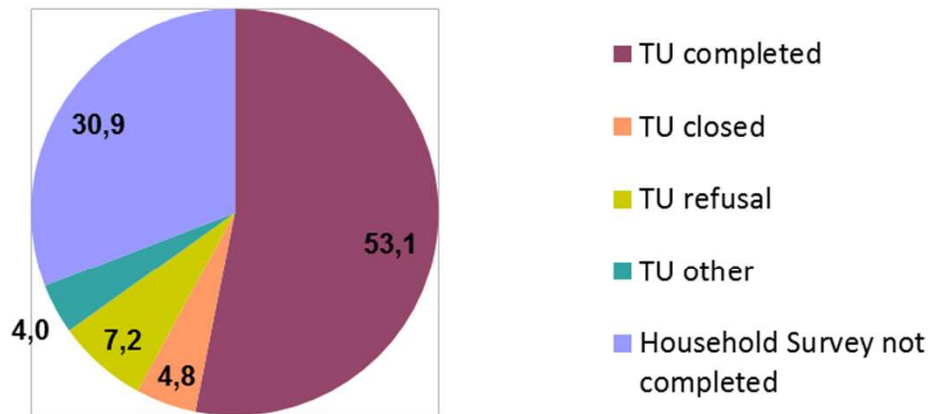
## 1. Particularities of each region visited

- **Pará** - large territories in the forest area, difficulty of access (boat, horse or planes)
- **São Paulo, Rio de Janeiro and Federal District** - refusal rates are higher due to the strong security measures in residential areas; special strategies to visit dangerous areas
- **Indigenous areas** - specific strategies also, such as recall interview due to the particular dialects
- **High illiteracy levels in some regions**

## 2. New sampling design tested, larger number of agencies involved

## 3. The second visit

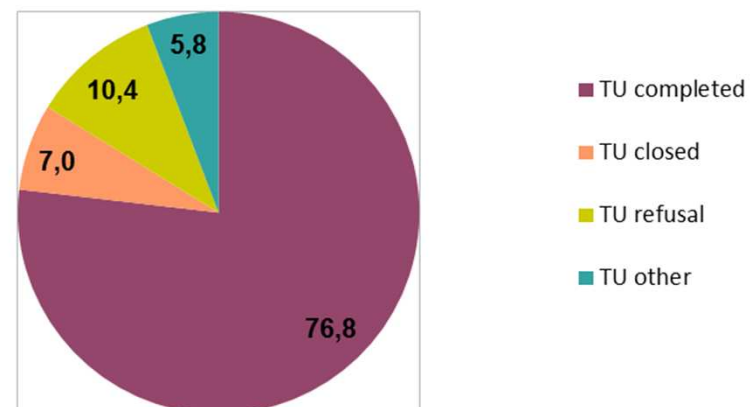
Distribution of total sample of the Pilot Time Use Survey, by type of interview - Total \* - 2009 (%)



Total sample:  
10.092 diaries

Valid diaries:  
5.360:

Distribution of the sample of the Pilot Time Use Survey, considering only the ones with Household Survey completed, by type of interview - Total \* - 2009 (%)

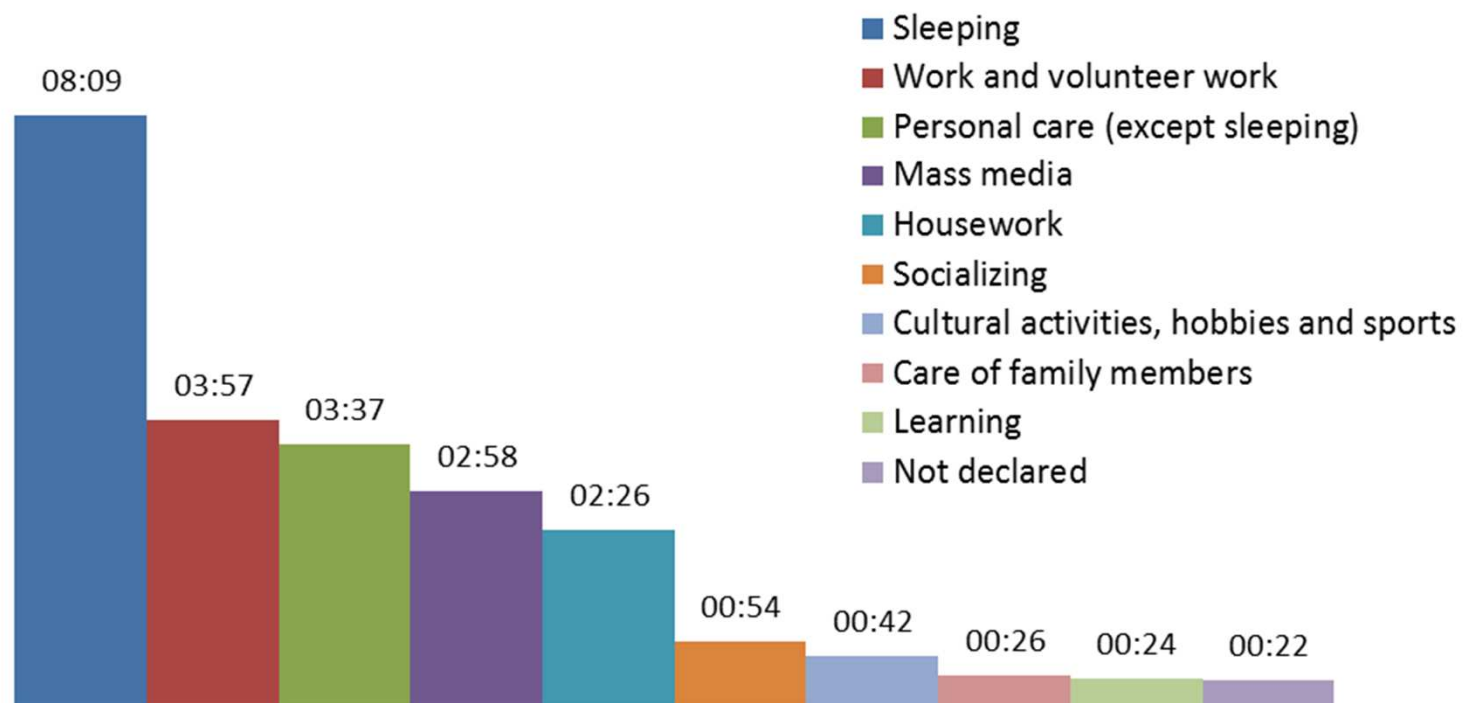


Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey  
\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.



- Variables:
  - Sex
  - Age groups
  - Years of schooling
  - Composition of the household unit
  - Employment status
  
- Main indicators:
  - Average time dedicated to the main activities
  - Participation rates in the main activities
  - Average time dedicated by participants to the main activities

### Average daily time dedicated to the main activity groups, of people 10 years of age or older - Total\* - 2009 (em horas)



Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

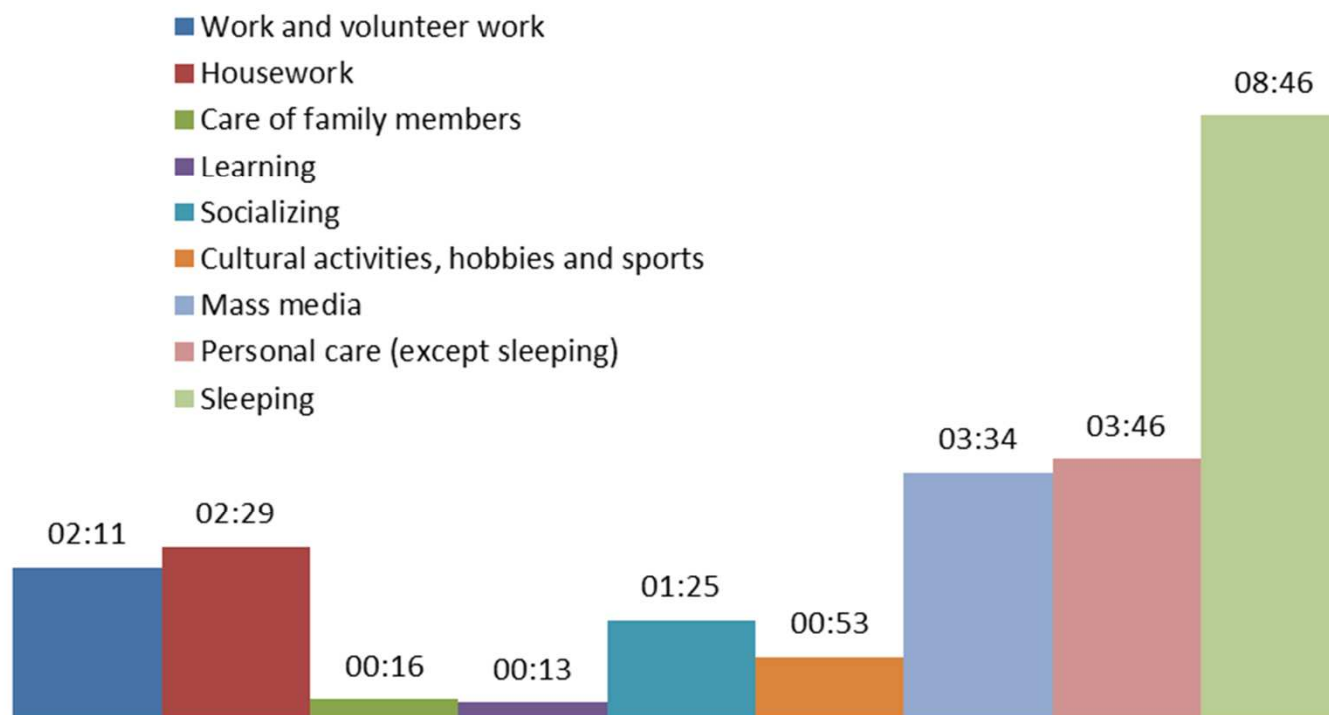
**Average daily time dedicated to the main activity groups, of people 10 years of age or older - Total\* - Weekdays - 2009 (hours)**



Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

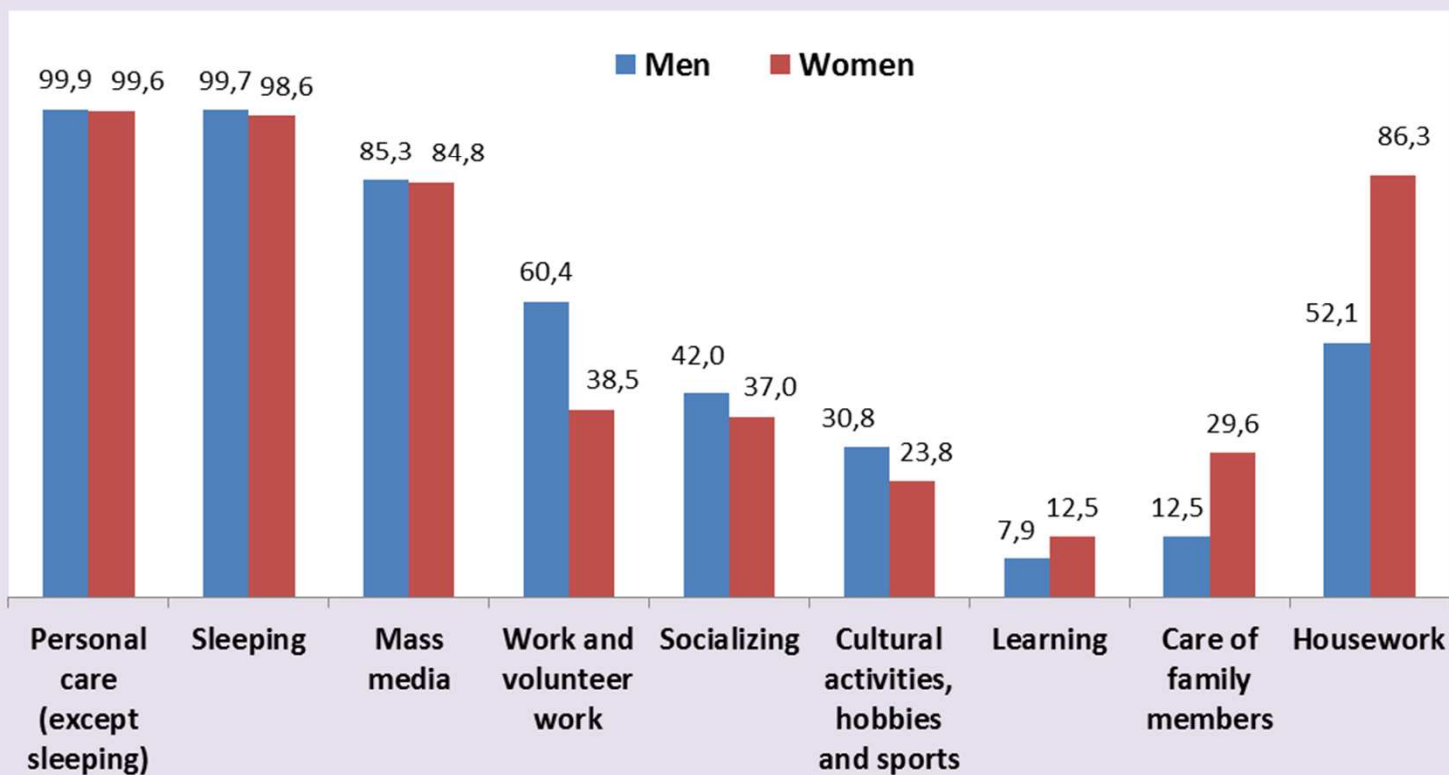
**Average daily time dedicated to the main activity groups, of people 10 years of age or older - Total\* - Weekends - 2009 (hours)**



Fonte: IBGE, Pesquisa Nacional por Amostra de Domicílios Contínua 2009/ Pesquisa Piloto de Uso do Tempo.

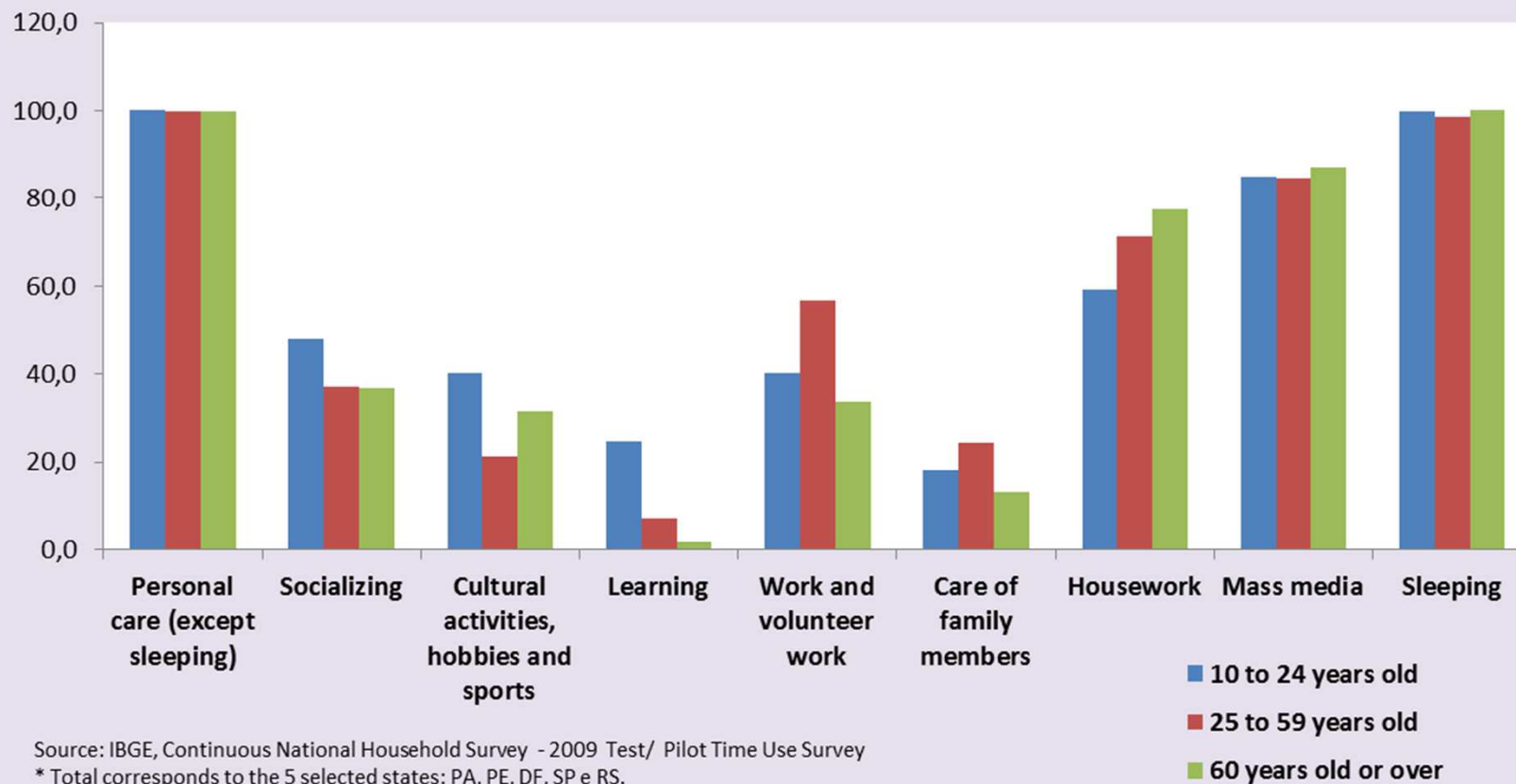
\* O total corresponde às 5 UFs selecionadas: PA, PE, DF, SP e RS.

**Participation rate, of people 10 years of age or older, in the main activity groups, by sex, Total\* - 2009 (%)**

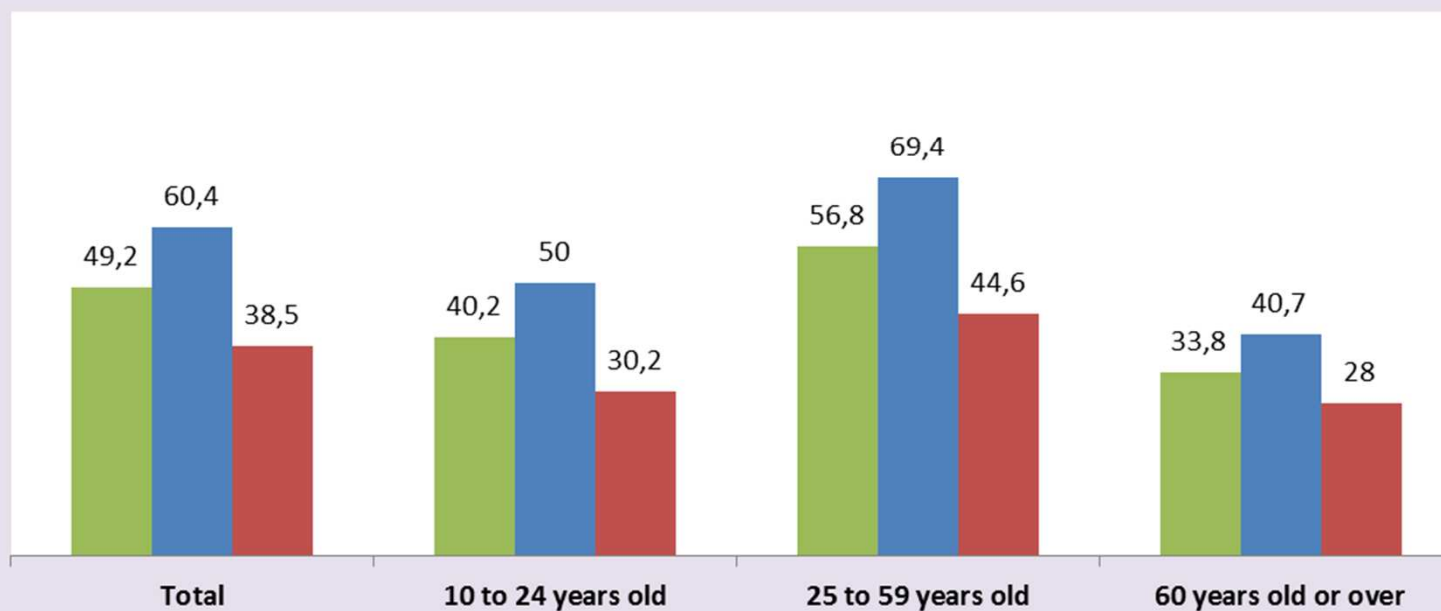


Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey  
 \* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

**Participation rates in the main activity groups, of people 10 years of age or older, by age groups, Total\* - 2009 (%)**



### Participation rate of people 10 years of age or older, in work and volunteer work activities, by age groups and sex, Total\* - 2009 (%)

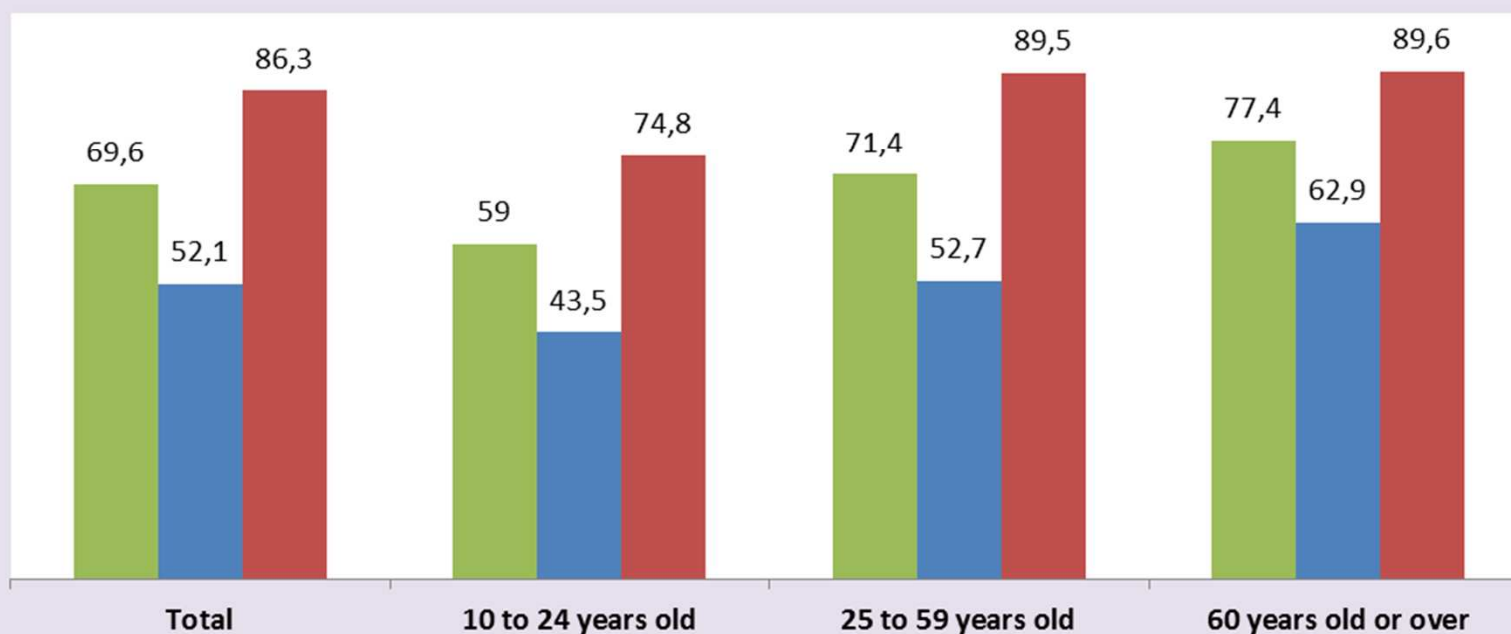


Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

■ Total ■ Men ■ Women

### Participation rate of people 10 years of age or older, in housework, by age groups and sex, Total\* - 2009 (%)



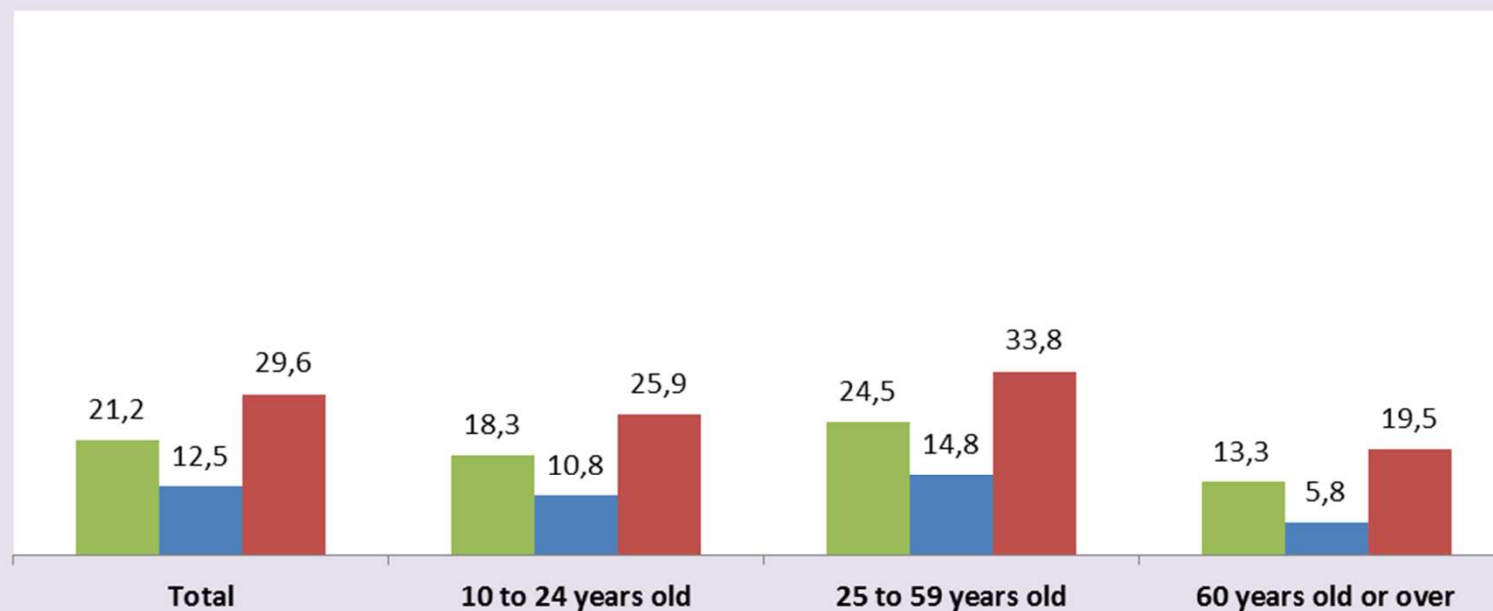
Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

■ Total ■ Men ■ Women



**Participation rates of people 10 years of age or older, in the care of family members, by age groups and sex, Total\* - 2009 (%)**

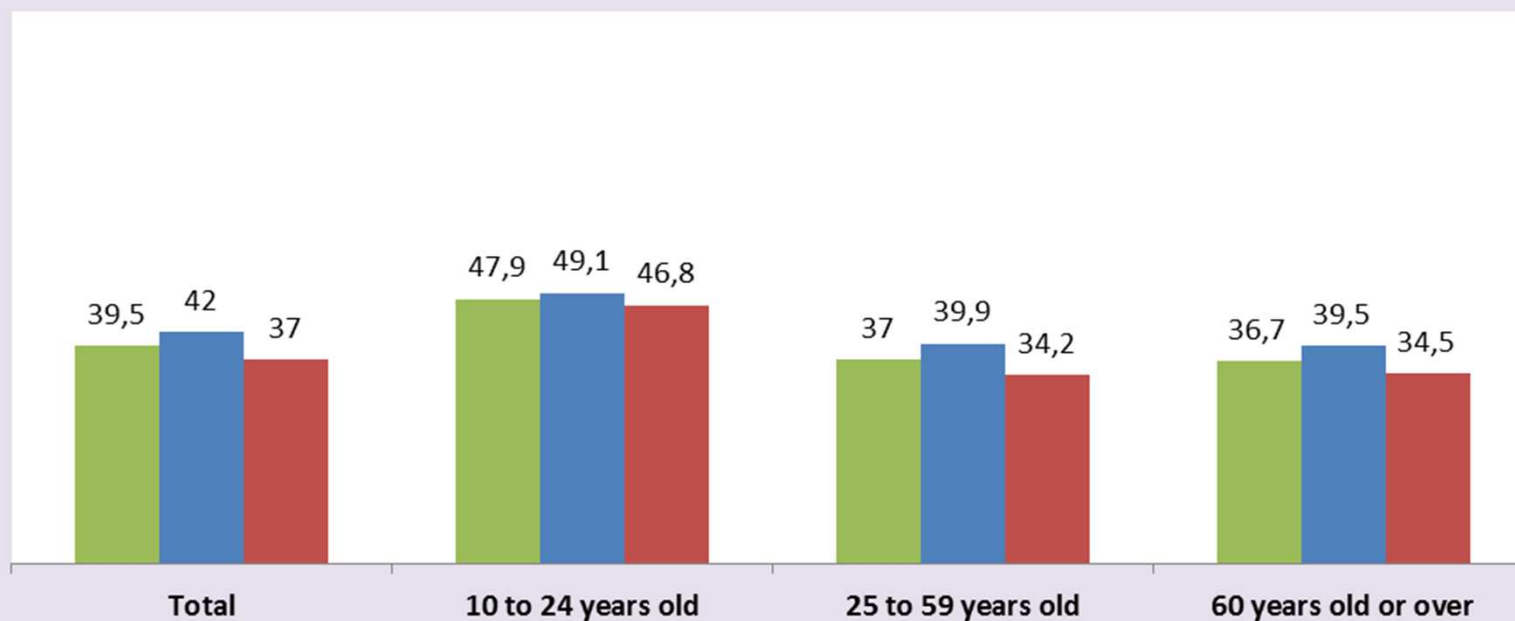


Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

■ Total ■ Men ■ Women

**Participation rates of people 10 years of age or older, in socializing activities, by age groups and sex, Total\* - 2009 (%)**

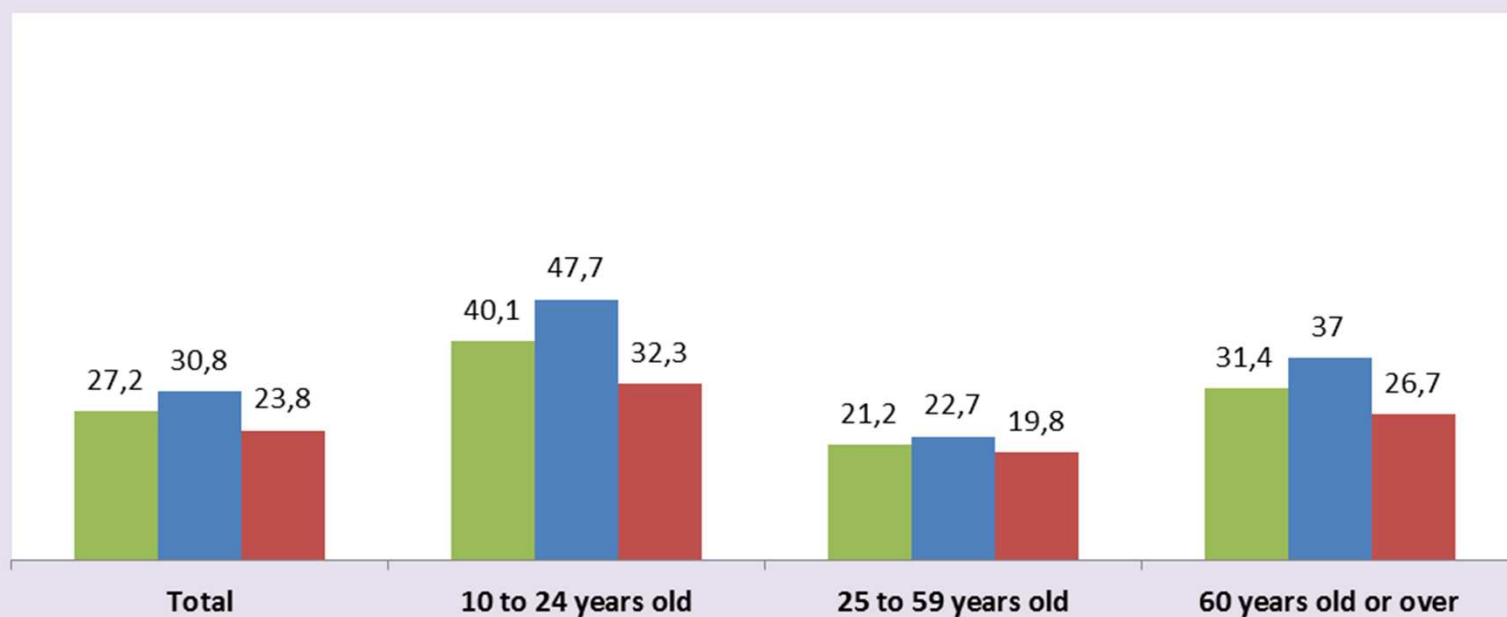


Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

■ Total ■ Men ■ Women

**Participation rates of people 10 years of age or older, in cultural activities, hobbies and sports, by age groups and sex, Total\* - 2009 (%)**



Source: IBGE, Continuous National Household Survey - 2009 Test/ Pilot Time Use Survey

\* Total corresponds to the 5 selected states: PA, PE, DF, SP e RS.

■ Total ■ Men ■ Women

- 1. Definition of how the Time Use Survey will be inserted in the Integrated System of Household Surveys**
  - PNAD Contínua
  - Domestic Budget Survey
  - Independent survey
  
- 2. Definition of the periodicity**
  
- 3. Survey instruments:**
  - Paper diary only?
  - Recall interview with a handheld computer only?
  - Desktop system to input diary data?
  
- 4. Incorporation of new concepts and revisions**
  - 19<sup>a</sup> ICLS
  - ICATUS

**Thank you**