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# IBGE's Alternative Approaches for Data Production in the Context of During COVID-19

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# Challenge posed by COVID-19

- **Traditional methods of data collection interrupted**
- **Disruption of conventional work settings**



# IBGE mission during the pandemia

- **Maintain the regular production of national key data and surveys** (GDP, inflation rate, business statistics, unemployment rate, among others)
- **Generate data on the impacts of the pandemic** on the population and enterprises, to support public health policies and strategic decisions in the regional and national levels

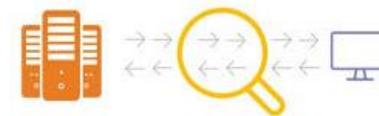


# Maintaining the regular production

- March 17<sup>th</sup> 2020 – Suspension of all data collection field operations / Demographic Census postponed

## New scenario

- **Business statistics**  
Internet data collection
- **Prices - Inflation rate**  
Internet data collection and web scraping
- **Social and economic indicators** (*PNAD Contínua*)  
Phone based data collection





**Working remotely**



**Technology transformation**



**Survey network approach**



**New pulse surveys**



**Distance learning scale up**



**Dissemination strategy**

**Roadmap:  
6 big areas of  
change**

Working  
remotely

- Remote work platform
- Automatization of work-flow processes



The screenshot shows the IBGE website interface. At the top, there is a navigation bar with the IBGE logo and menu items: NOTÍCIAS, RECURSOS HUMANOS, SOCIAL, CULTURA E LAZER, INSTITUCIONAL, and CALENDÁRIO. A search bar is also present. Below the navigation bar, there is a search input field and a section titled "Trabalho Remoto". The section contains a list of links: "Auxílio-transporte", "Instruções Normativas", "Pensão por Morte do Servidor", and "Revogação de Atos Normativos". The "Instruções Normativas" link is highlighted, and its content is displayed: "Esta Instrução Normativa da CRH dispõe sobre o trabalho remoto e outras medidas de proteção para enfrentamento da emergência de saúde pública de importância internacional decorrente do coronavírus (covid-19), no âmbito do Instituto Brasileiro de Geografia e Estatística, nos termos da Resolução do Conselho Diretor nº 14/2020." Below the text, there is a link to "IN.CRH nº 11/2020 - Trabalho" dated "07/04/2020".

# Technology transformation

- Introduction of new technology in data collection
- Scale up and use of data registries for field research

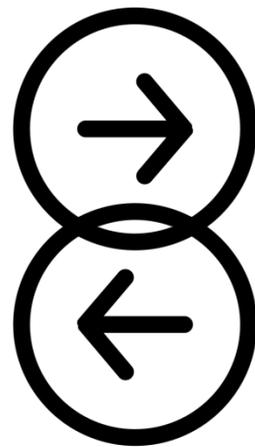


# Technology transformation

## ○ Sample and Data pairing efforts

**CNEFE**

IBGE National  
Addresses  
Database



**Address Databases**

- Light consumers
- Tax payers addresses
- Social programs address database

**Household surveys samples**

- PNAD Contínua
- PNAD COVID19
- Budget Survey



## Survey network approach

- Internal communication strategy with all stakeholders
- Awareness publicity campaign in social media
- Mail delivery of letters



## Generating data on the impacts of the pandemic

IBGE designed 2 new surveys

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graph TD; A[IBGE designed 2 new surveys] --> B[Survey on COVID19 impacts on small and medium enterprises]; A --> C[PNAD COVID19 Survey];
```

Survey on COVID19  
impacts on small and  
medium enterprises

PNAD COVID19  
Survey

## New pulse surveys

- **PNAD COVID**
- **Small and Medium Enterprises Survey**



COMBATE  
À COVID-19

SAÚDE

**PNAD COVID**

**IBGE INICIA PESQUISA  
POR TELEFONE  
ENTREVISTAS DURAM  
10 MINUTOS**

**#NinguémFicaPraTrás**

**PÁTRIA AMADA  
BRASIL**  
GOVERNO FEDERAL

# Survey on COVID19 impacts on small and medium enterprises

## Purposes of the survey

- Obtain information about enterprises performance and measures taken against COVID impacts on their businesses.

## Some questionnaire themes

- Business environment
- Enterprise situation
- Payment and supply chain
- Demand for work
- Measures taken
- Government aid



# PNAD COVID19 Survey

## Purposes of the survey

- Obtain information about the symptoms associated with **COVID-19** and the measures taken against these symptoms.
- Obtain information from those who showed symptoms, sought a health care facility, and what kind of facility it was.
- Monitor the changes that happened in the Brazilian labour market during the COVID-19 pandemic.



# Distance learning scale up

- **ENCE university fully online**
- **Training courses revamped and adapted to new remote context**



- COVID-19 Hotsite
- Production of accessible dashboards to different stakeholders

Data  
dissemination  
strategy



# LESSONS LEARNED AND NEW CHALLENGES TO 2021 DEMOGRAPHIC CENSUS

- **Mixed Mode Data Collection to Account for Uncertainty**
  - **Computer Assisted Personal Interview (CAPI)**
  - **Computer Assisted Telephone Interview (CATI)**
- **Computer Aided control of Census Operation in 3 Phases (Pre-Enumeration, Enumeration, and Post-Enumeration)**
  - **Grid Population Estimation helping the 3 phases**
  - **Artificial Intelligence tools for controlling the process in the field**



**THANK YOU**

<https://covid19.ibge.gov.br/>

