

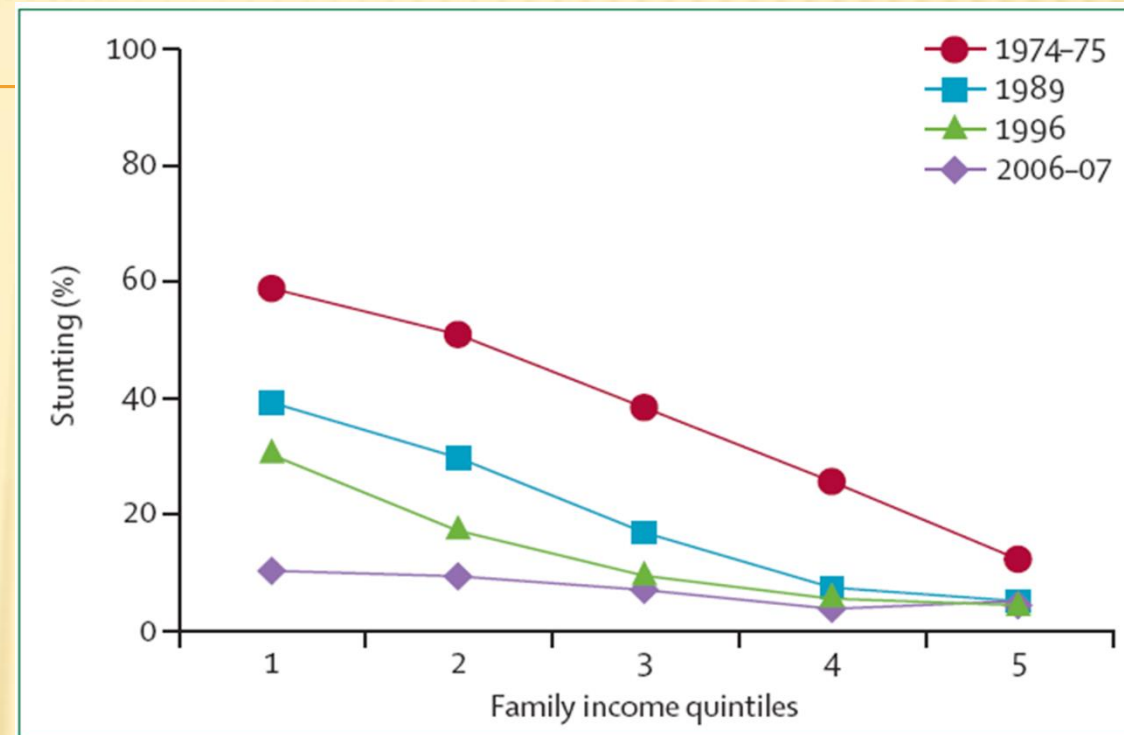
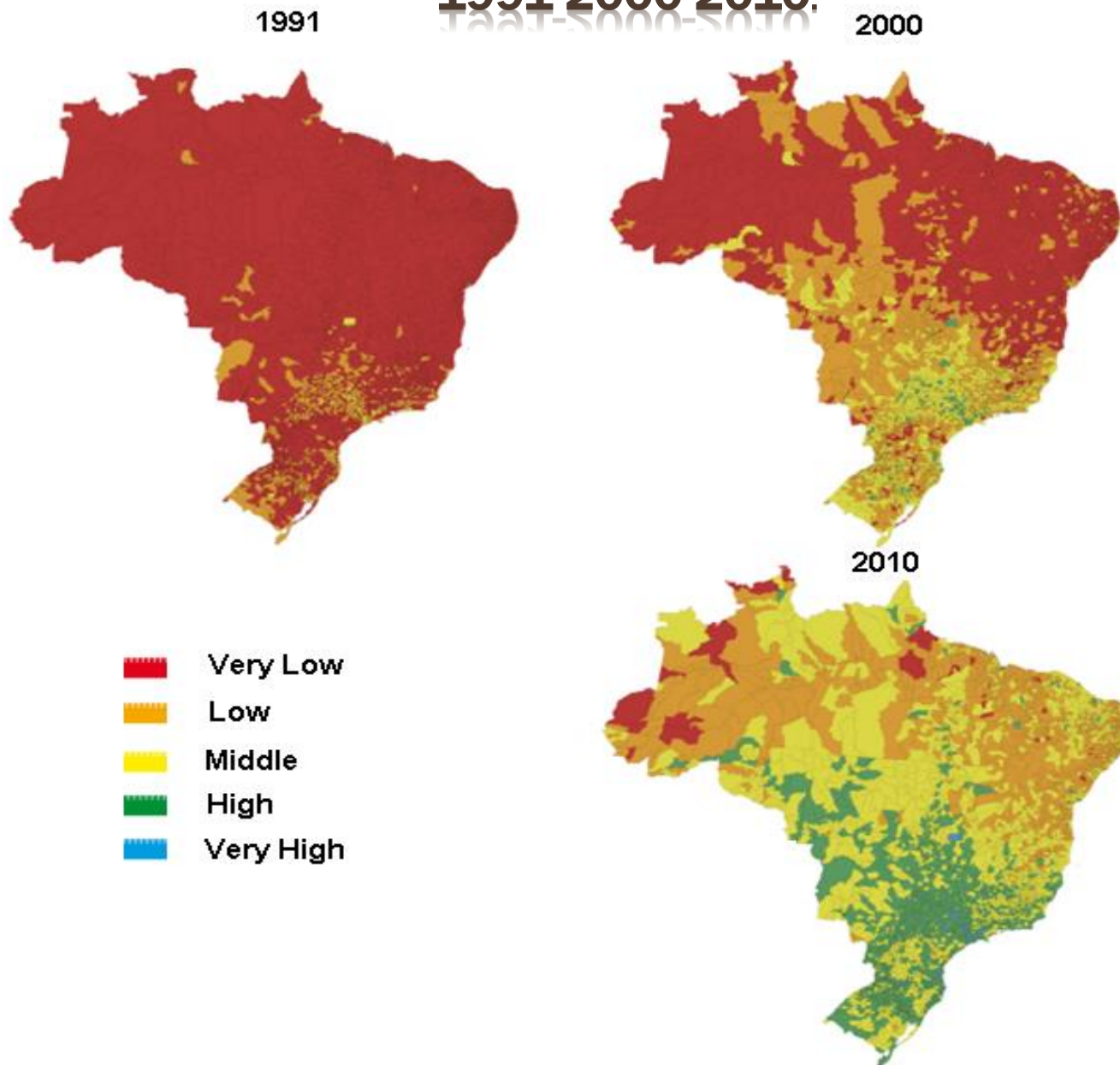


# Assessing the impact of social policies on health in Brazil: CIDACS and the 100 million Brazilians cohort



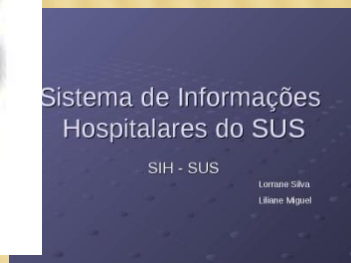
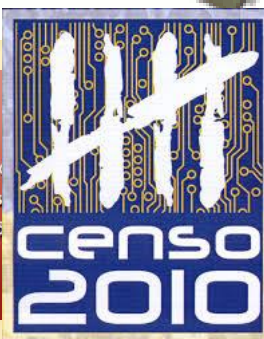
**Laura Rodrigues IDE Big Data Workshop LSHTM March 2017**

# HUMAN DEVELOPMENT INDEX OF BRAZILIAN MUNICIPALITIES, 1991-2000-2010.



Good time to investigate the role of social inequalities and the impact of social and economic policies and interventions on health in Brazil





INFECTIOUS  
DISEASES  
NOTIFICATIONS

BENEFITS  
RECEIVED

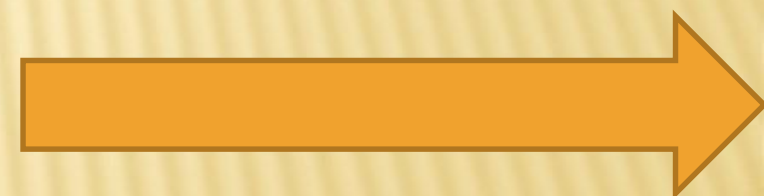
CADU  
114 000 000  
INDIVIDUALS

BIRTHS

DEATHS

Linked  
datasets

FROM 2007 TO 2015  
updating ....



To come:

Hospital episodes, growth monitoring, GPs, registries,  
educational performance



# ONGOING PROJECTS

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- 1 Core funding - Biomedical resources – **Welcome Trust**
- 2- A collaboration between Brazil and the United Kingdom on e-health to establish a virtual cohort of 100 million Brazilians (Funder: **MRC-FAPESB** Newton Fund)
- 3- Evaluating the impact of social factors and interventions on healthy growth and development: the 100 million Brazilians cohort (Funders- **MoH-CNPq-Gates**)
- 4-Evaluation of effect of social determinants and of impact of social programs on incidence, frequency of disability and treatment outcomes of leprosy in the 100 million Brazilians cohort. (Funder: **MRC\_CONFAP** Newton Fund)
- 5-Impact of a conditional cash transfer programme on HIV/AIDS and Tuberculosis and forecast of its differential effectiveness(Funder:**Wellcome Trust-UK**)
- 6- Studies and evaluations of social assistance programs and policies developed by the MDS.(Funder **MDS**)
- 7- Impact of a conditional cash transfer programme on Leprosy.(Funder **MRC-FAP-DF**)
- 8- Effect of Zika virus infection on children and adults (Funder:**MoH-Brazil**)

Several ongoing PHD projects (ITS/computational, Statistical, Epidemiological)

# Challenges

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Negotiating access to data  
Ethical approval  
Guaranteeing safety of data

Cleaning big data  
Linkage – algorithms  
Validation  
Data provision to outsider

Process  
Governance  
Ethics  
Costs  
Access

Statistical analysis of impact of policies

- RDD
- Propensity score
- Difference on difference

Dynamic  
Social variables  
Benefits  
Family composition

Study different periods /sugroups  
Bunching  
Context





# cidacs

Centro de Integração de Dados  
e Conhecimentos para Saúde

**FIOCRUZ**

Thank you

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