

Public Health Institutes of the World

**IANPHI**

# Annual Meeting Helsinki, Finland

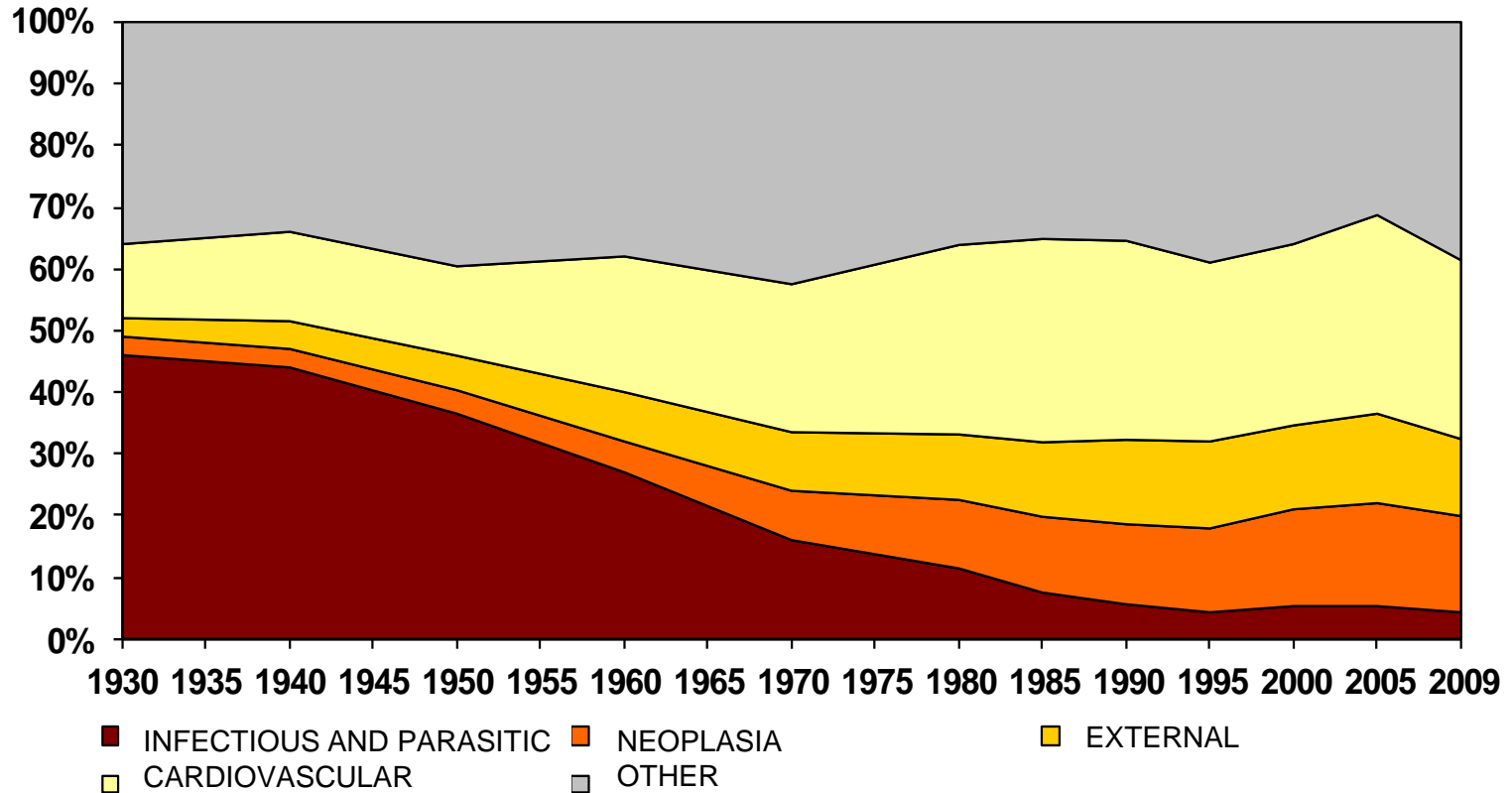
## Monitoring and Surveillance of Infectious Diseases

Claude Pirmez, FIOCRUZ

**NATIONAL INSTITUTE FOR HEALTH AND WELFARE**

# Epidemiological transition in Brasil

## Proportion of deaths between 1930 and 2009



Barbosa da Silva e cols. In: Rouquairol & Almeida Filho: Epidemiologia & Saúde, 2003 pp. 293. Updated by CGIAE/DASIS/SVS

# Control and elimination of infectious diseases are factible through

- Availability of new tools for early detection
- Improvement of health assistance
- Political commitment

## **THE EPIDEMIOLOGICAL SURVEILLANCE IN BRAZIL: stories of sucess**

- Polio eradication since 1989
- No authoctonous measles transmission under control since 2000
- *T. cruzi* vector transmission under control
- German measles, newborn tetanus, human rabies with good chances to be eliminated
- Reduction of cases (100-fold) and deaths (40-fold) of diseases that can be prevented by vaccination



## THE EPIDEMIOLOGICAL SURVEILLANCE IN BRAZIL



## HEALTH IN COUNTRY BORDERS



## NATIONAL PROGRAMS

- Dengue Control (PNCD)
- Malaria Control (PNCM)
- Leprosy Control (PNCH)
- Tuberculosis Control (PNCT)
- Viral Hepatitis (PNHV)
- Immunization Program - PNI

## PUBLIC HEALTH LABORATORIES Reference Labs Network

### > COORDENAÇÃO GERAL DE LABORATÓRIOS DE SAÚDE PÚBLICA

#### SISTEMA NACIONAL DE LABORATÓRIOS DE SAÚDE PÚBLICA



O Sistema Nacional de Laboratórios de Saúde Pública foi instituído pela Portaria n.º 2.031, de 23 de setembro de 2004 com o objetivo de atender com maior eficácia as ações de vigilância. A Portaria n.º 2.031/2004 definiu o SISLAB como conjunto de redes nacionais de laboratórios, organizadas em sub-redes por agravos ou programas, de forma hierarquizada por grau de complexidade das análises relacionadas à vigilância epidemiológica, vigilância ambiental em saúde, vigilância sanitária e assistência médica de alta complexidade.

>> [Guia de procedimentos técnicos para baciloscopia em hanseníase](#)

## > EMERGENCY IN PUBLIC HEALTH THE CIEVS NETWORK

**NOTIFIQUE  
AQUI**

# SISLAB – NATIONAL LABORATORY NETWORK

**Health Surveillance - SVS**

National Agency for  
Sanitary Surveillance

**Health Assistance  
SAS**

EPIDEMIOLOGICAL

ENVIRONMENTAL

SANITARY

ASSISTENCE

► **COORDENAÇÃO GERAL DE LABORATÓRIOS DE SAÚDE PÚBLICA**

SISTEMA NACIONAL DE LABORATÓRIOS DE SAÚDE PÚBLICA



**COLLABORATION  
CENTERS**

**National RL**

**Regional RL**

**State RL - LACEN**

**City RL**

**Local Labs**

**Country Border Labs**

**FIOCRUZ**

- State Laboratories
- Country border Laboratories
- BSL3 Laboratories
- National Reference Laboratories



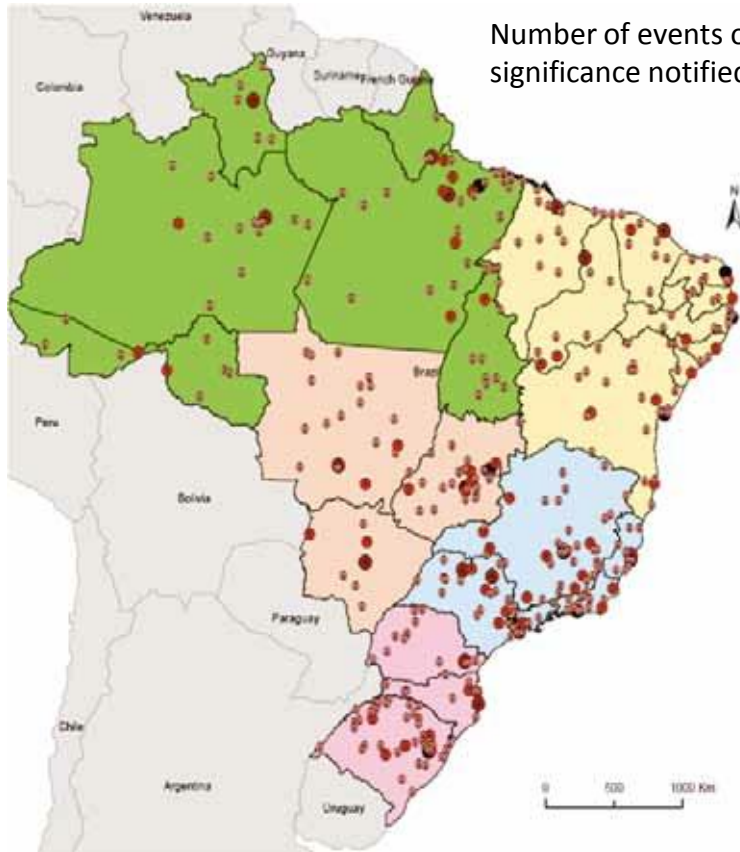
# Center of Strategic Information in Health Surveillance

Centro de Informações Estratégicas em Vigilância em Saúde – CIEVS

CIEVS/FIOCRUZ

cievs@fiocruz. Br

**CIEVS/MS is part of the GOARN - Global Outbreak Alert and Response Network as Strategic Health Operation Center (Shoc)**

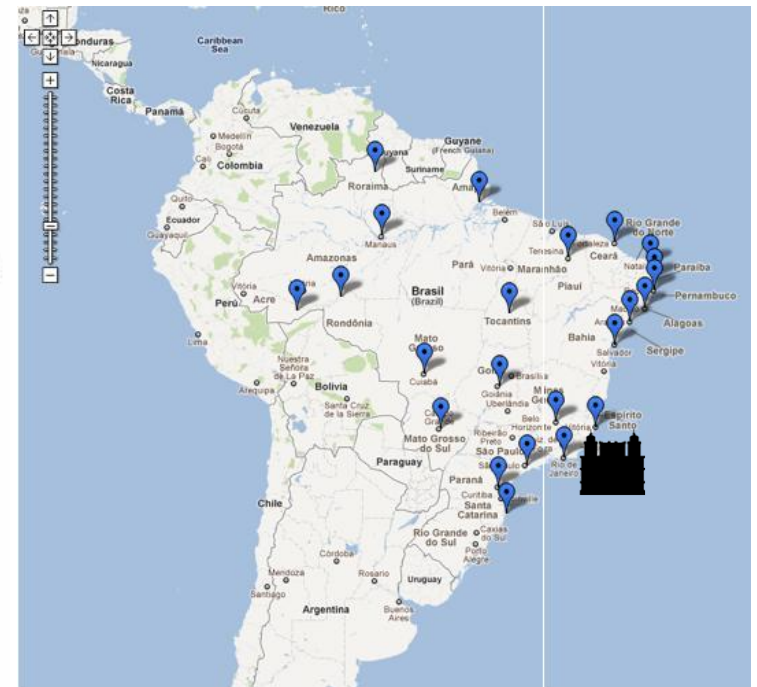


Number of events of national significance notified to CIEVS

n = 663

**Legenda**  
**NUMERO EVENTOS**

- 1
- 2-3
- 4-8
- 9-25
- centro-este
- nordeste
- norte
- sudeste
- sul



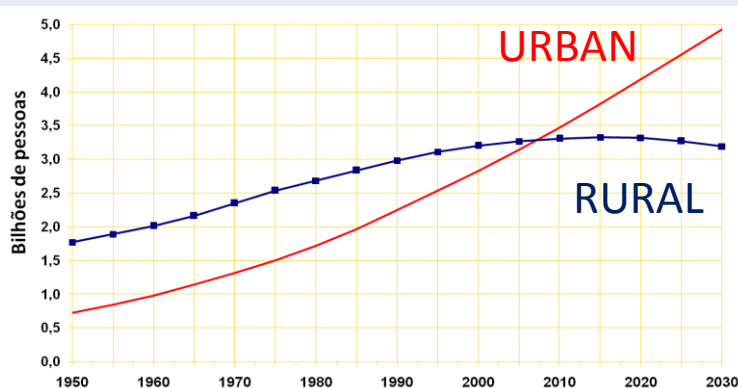
## HEALTH AGENDA IN THE BEGINNING OF THE XX CENTURY

### In urban areas

- Plague
- Yellow fever
- Smallpox
- Malaria
- Tuberculosis
- Flu
- cholera

### In rural areas

- Leishmaniasis
- Chagas disease
- Helminthiasis



## HEALTH AGENDA NOW

### Potentially reducible

- Diseases prevented by vaccination
- Schistosomiasis
- Human rabies
- Tuberculosis and Leprosy
- Chagas disease (vectorial)
- Onchocerciasis
- Congenital syphilis

### Potential outbreaks

- Dengue and Yellow fever
- Leptospirosis
- DST and hepatitis
- Hantaviriosis
- Malaria
- Leishmaniasis
- Acute chagas disease (oral)

### Emerging/re-emerging diseases

- H5N1
- Arboviruses



# The unfinished XX century agenda



# and the challenges of the XXI century



**Violence costs billions each year**



UN Photo/Eric Kanalstein

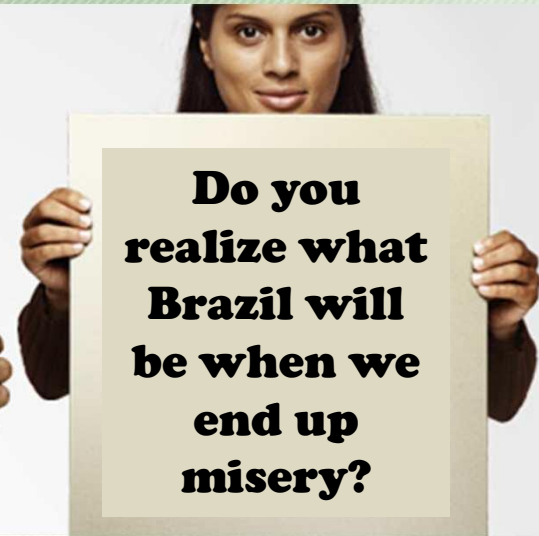


PLAN

**BRAZIL  
FREE OF  
MISERY**



**Brazil has  
grown  
because  
poverty has  
diminished**



**Do you  
realize what  
Brazil will  
be when we  
end up  
misery?**

**SAÚDE  
NÃO TEM PREÇO**



**SUS+** Ministério da  
Saúde

GOVERNO FEDERAL  
**BRASIL**  
PAIS RICO E PAIS SEM POBREZA

## Health as an opportunity to overcome poverty

- Impact on the learning performance at school
- Impact on the performance at work
- Health economy: services

### Some initiatives already in action

*Health in the School*

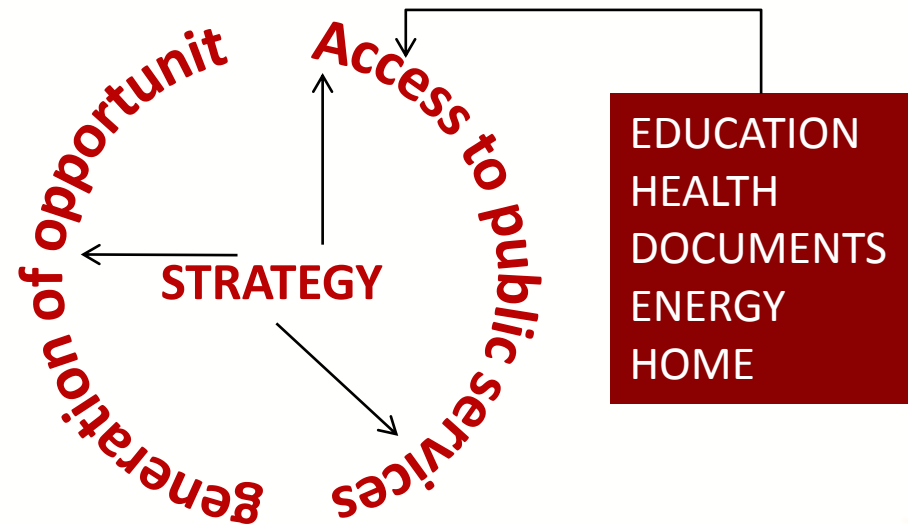
*Smiling Brazil*

*See Brazil*

*'Stork' Network (Healthy Parturition)*

*Distribution of medicines for diabetes and hypertension*

*My Home, My Live*





Thank you  
Obrigada  
Mercí  
Gracias  
Kíitos