

WEBINAR

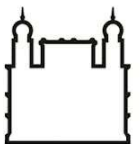
Simultaneous translation
into Spanish & Portuguese



Using interdisciplinary data and concepts in research: *The Trajetórias Project*

26th Oct 2023, 13:00 UK | 9:00 BR

REGISTER



Ministério da Saúde

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WEBINAR

Using interdisciplinary data and concepts in research: *The Trajetórias Project*

26th Oct 2023, 13:00 UK | 9:00 BR

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Chair: Rachel Lowe - Catalan Institution for Research and Advanced Studies (ICREA) Research Professor and Global Health Resilience Group Leader, Barcelona Supercomputing Center (BSC), Spain

Claudia Codeço - Senior Researcher in Public Health, Oswaldo Cruz Foundation (Fiocruz), Brazil

Raquel Martins Lana - Postdoctoral Researcher, Global Health Resilience Group, Barcelona Supercomputing Centre (BSC), Spain

Ana Rorato - Postdoctoral researcher, National Institute for Space Research (INPE), Brazil

Ana Paula Dal'Asta - Postdoctoral researcher, National Institute for Space Research (INPE), Brazil



Panel

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Joining us today

| 1 | Country | Count |
|----|---------------|-------|
| 2 | Brazil | 71 |
| 3 | Uganda | 27 |
| 4 | Kenya | 27 |
| 5 | Nigeria | 22 |
| 6 | Ghana | 15 |
| 7 | India | 15 |
| 8 | Ethiopia | 14 |
| 9 | United Kir | 8 |
| 10 | Cameroon | 7 |
| 11 | South Africa | 5 |
| 12 | United States | 5 |
| 13 | Honduras | 4 |
| 14 | Rwanda | 4 |
| 15 | Burkina Faso | 4 |
| 16 | Zimbabwe | 4 |
| 17 | Sierra Leone | 4 |
| 18 | Mozambique | 4 |
| 19 | Nepal | 4 |
| 20 | Zambia | 4 |
| 21 | Congo, Dem. | 3 |
| 22 | Germany | 3 |
| 23 | France | 3 |
| 24 | Portugal | 3 |
| 25 | Côte d'Ivoire | 3 |
| 26 | Canada | 3 |
| 27 | Italy | 3 |
| 28 | Malawi | 3 |
| 29 | Philippines | 2 |
| 30 | Mali | 2 |
| 31 | Tanzania | 2 |
| 32 | Botswana | 2 |
| 33 | Peru | 2 |
| 34 | Namibia | 2 |
| 35 | Mexico | 2 |
| 36 | Indonesia | 2 |
| 37 | Lesotho | 2 |
| 38 | Afghanistan | 1 |
| 39 | Yemen | 1 |
| 40 | Tunisia | 1 |

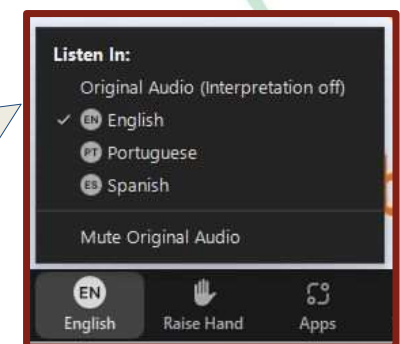


Agenda

- Welcome and introductions
- The conceptual framework of the Trajetórias Project
- The epidemiological component of the dataset
- The environmental component of the dataset
- The economic component of the dataset
- Using the Trajetórias dataset for policy making
- Interactive session with panel discussion and Q&A
- Closing remarks

Housekeeping

- This webinar is being recorded and will be shared on The Global Health Network platform - Fiocruz and Latin America and the Caribbean hubs.
- Due to the number of participants your camera and microphone are disabled.
- This webinar will be held in Portuguese and simultaneous translation will be provided into both English and Spanish.
- Navigate to the toolbar, click on **Language Interpretation** and select your desired language input.



Housekeeping

- Please use the *Chat feature* for any technical issues.
- Please use the *Q&A feature* to post your questions. You can post anonymously.
- We have dedicated time allocated for Q&A so we'll try to get through as many questions as possible.



The epidemiological component of the Trajetórias dataset

Dr. Raquel Martins Lana

Postdoctoral researcher

Global Health Resilience Group, Barcelona
Supercomputing Centre (BSC), Spain



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Incidence of vector borne diseases

| Subdimension | Indicator | Unity | Timeframe | ID |
|----------------------|-------------------|---|---|---------|
| Vector-borne disease | Disease | Chagas, CL, VL, Dengue, Falciparum, Vivax, Vivax+Falciparum | [t1, t2] = [2004, 2008] or [2015, 2019] | disease |
| | Residential zone | rural or urban zones | [t1, t2] = [2004, 2008] or [2015, 2019] | zone |
| | Disease cases | count | [t1, t2] = [2004, 2008] or [2015, 2019] | cases |
| | Disease incidence | incidence rate | [t1, t2] = [2004, 2008] or [2015, 2019] | inc |

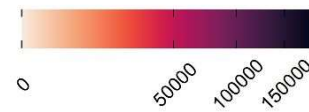
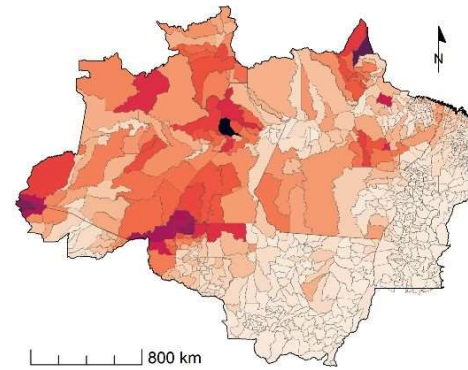
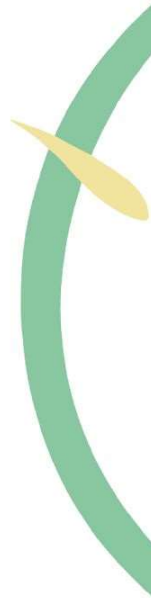
Table 2. Description of the epidemiological indicators in the Trajetorias dataset.

$cases(d, m, z, t_1, t_2)$ = sum of cases of the disease d , in zone z of m , between t_1, t_2

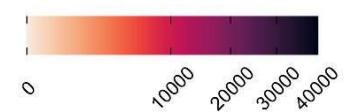
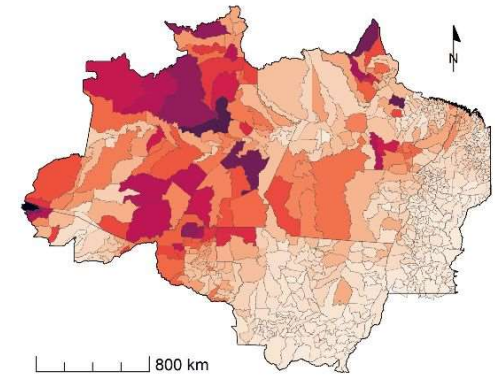
$$inc(d, m, z, t_1, t_2) = \frac{cases(d, m, z, t_1, t_2)}{pop(m, z, t_{(t_2-t_1)/2}) \times 5 \text{ years}} \times 10^5$$

Sources: SINAN, SIVEP-Malária and <https://brasil.io/home/>

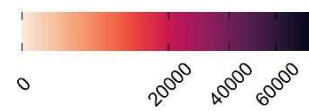
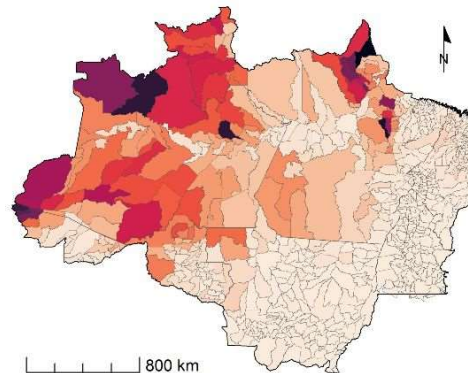
Rural and urban malaria



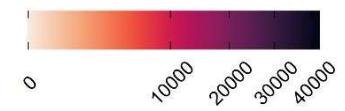
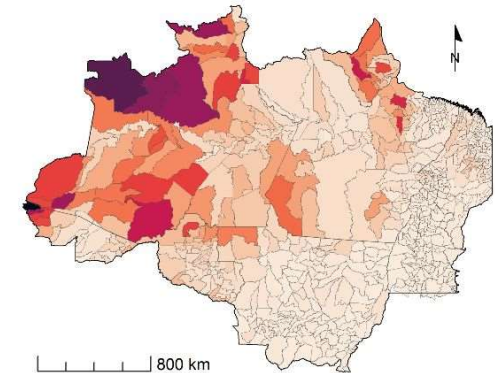
Incidence of rural vivax malaria 2004-2008



Incidence of urban vivax malaria 2004-2008

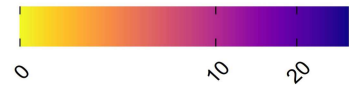
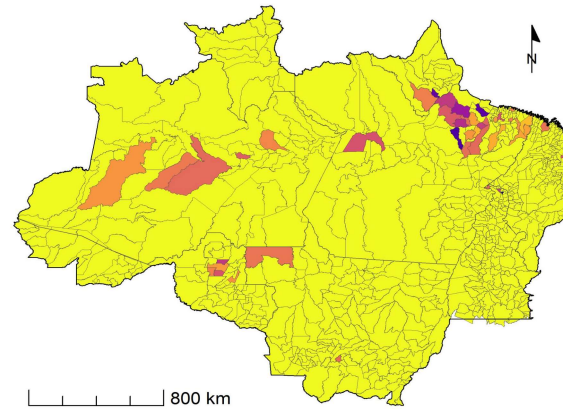
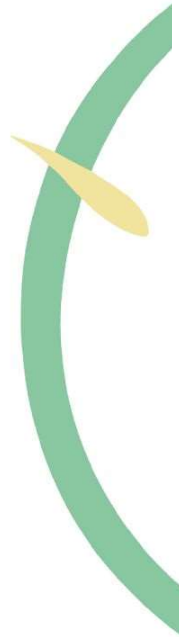


Incidence of rural vivax malaria 2015-2019

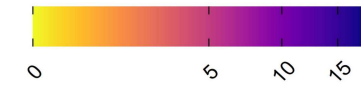
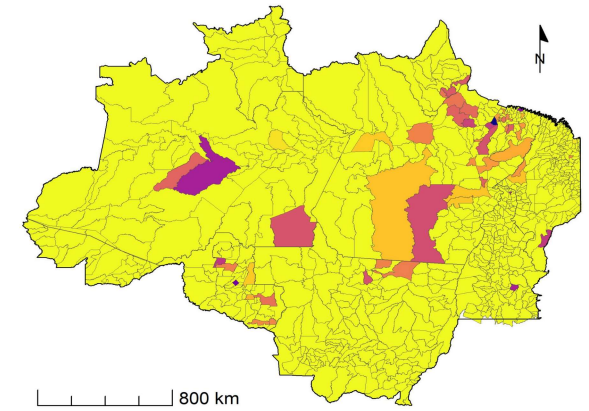


Incidence of urban vivax malaria 2015-2019

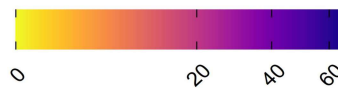
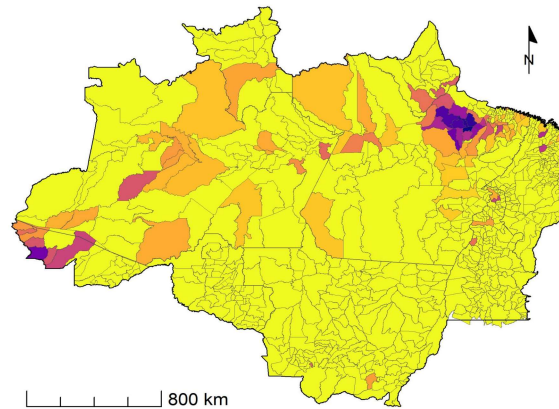
Rural and urban Chagas disease



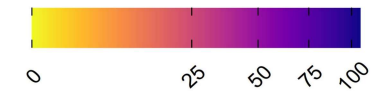
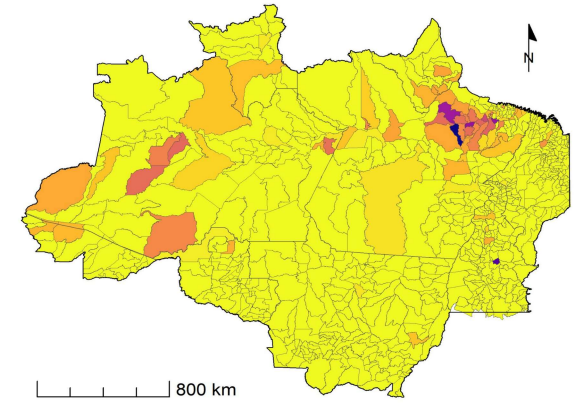
Incidence of rural chagas 2004-2008



Incidence of urban chagas 2004-2008

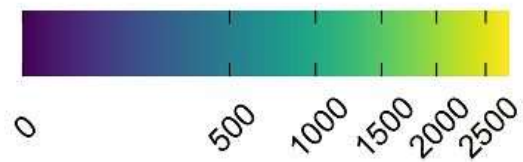
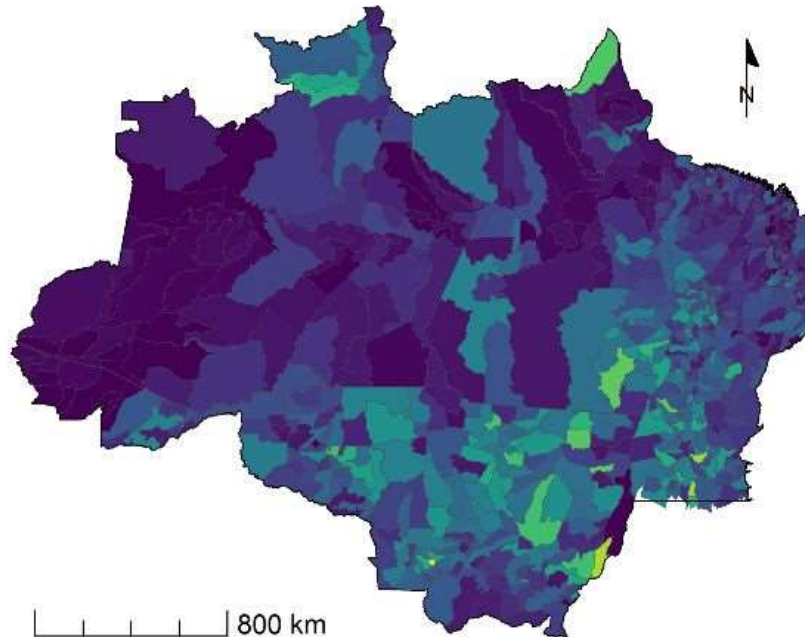


Incidence of rural chagas 2015-2019

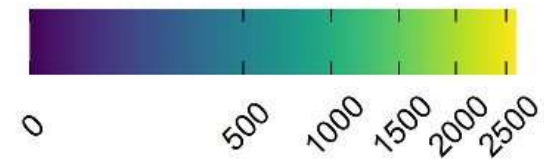
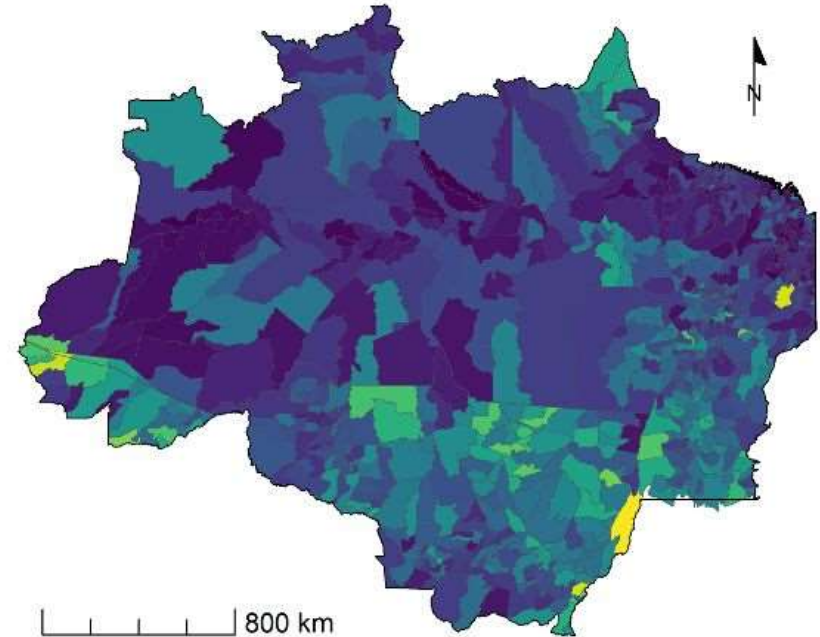


Incidence of urban chagas 2015-2019

Dengue progression over the years



Total dengue incidence 2004-2008



Total dengue incidence 2015-2019

Resources

Access the article

Rorato et al., 2023. Trajetórias: a dataset of environmental, epidemiological, and economic indicators for the Brazilian Amazon. *Sci Data* 10, 65 (2023).

<https://www.nature.com/articles/s41597-023-01962-1>

Trajetórias Dashboard:

<https://trajetorias.shinyapps.io/trajetorias/>



Resources

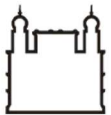
The recording, materials, presentations and resources will be shared on the **Fiocruz** and **Latin America and the Caribbean** knowledge hubs:

<https://fiocruz.tghn.org/> and <https://lac.tghn.org/>



<http://bit.ly/trajetoriasfiocruz>

Thank you.



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