

WEBINAR

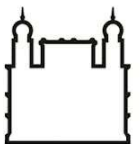
Simultaneous translation
into Spanish & Portuguese



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

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

REGISTER



Ministério da Saúde

FIUCRUZ
Fundação Oswaldo Cruz



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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

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

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

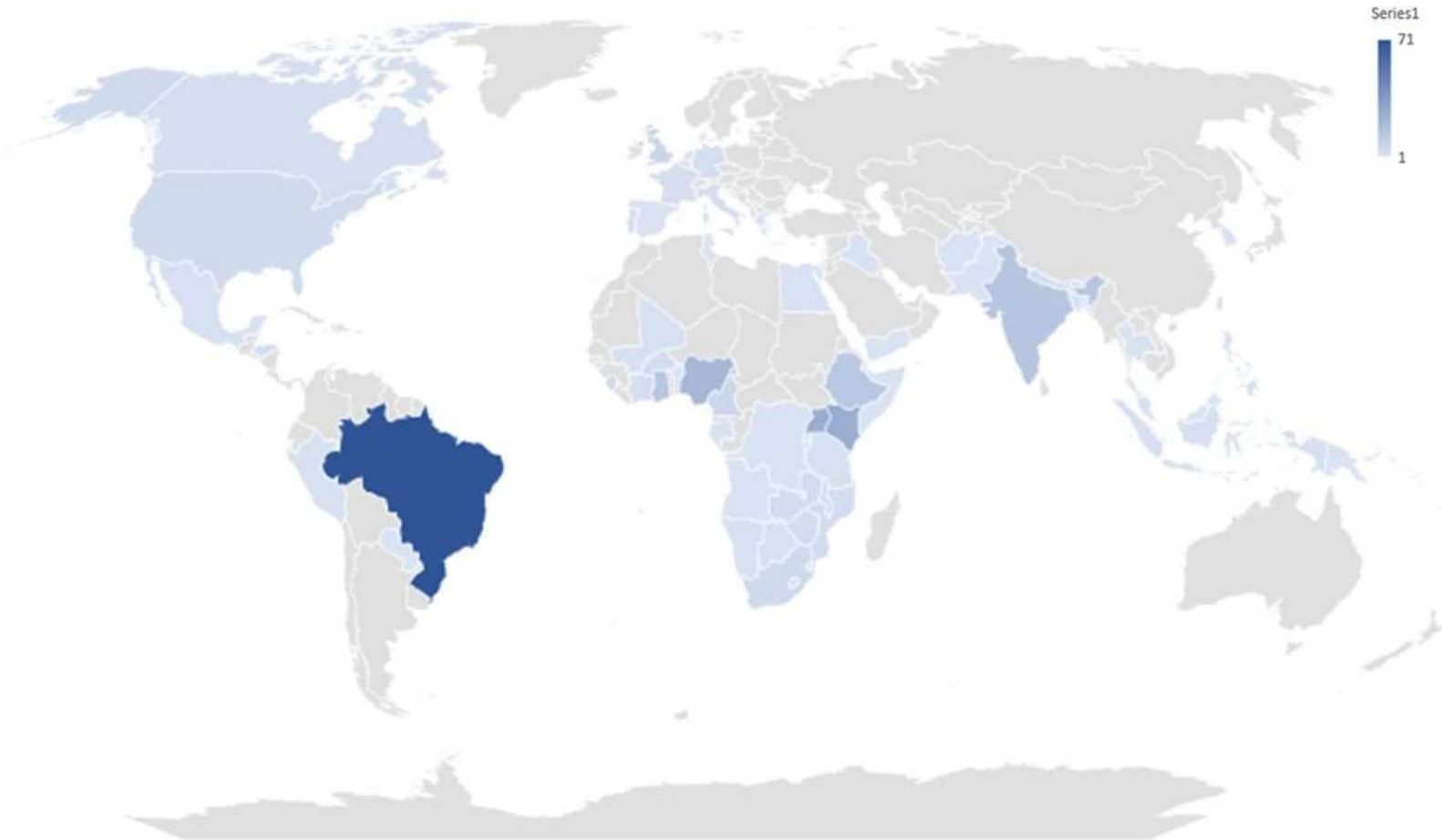
Raquel Martins Lana - Postdoctoral Researcher, Global Health Resilience Group, Barcelona Supercomputing Centre (BSC), Spain

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

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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

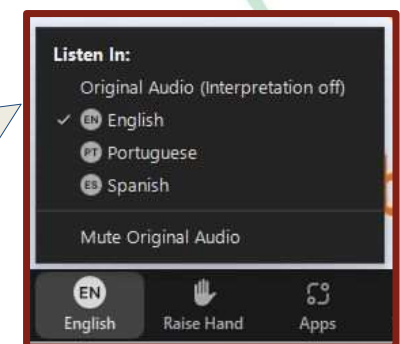


Agenda

- 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.



Using the Trajetórias dataset for policy making

Dr. Cláudia Torres Codeço

Senior Researcher

Oswaldo Cruz Foundation (Fiocruz), Brazil



Analysis of environmental and human health scenarios

Economic

Environmental

Epidemiological

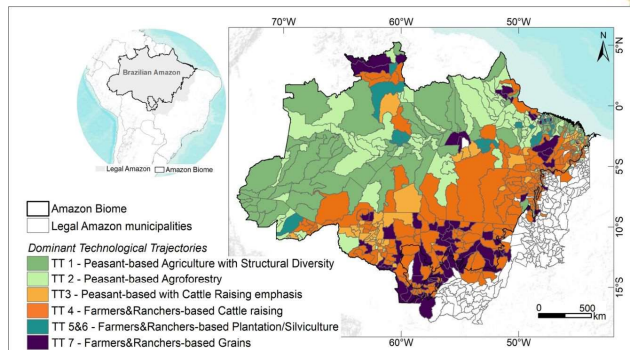
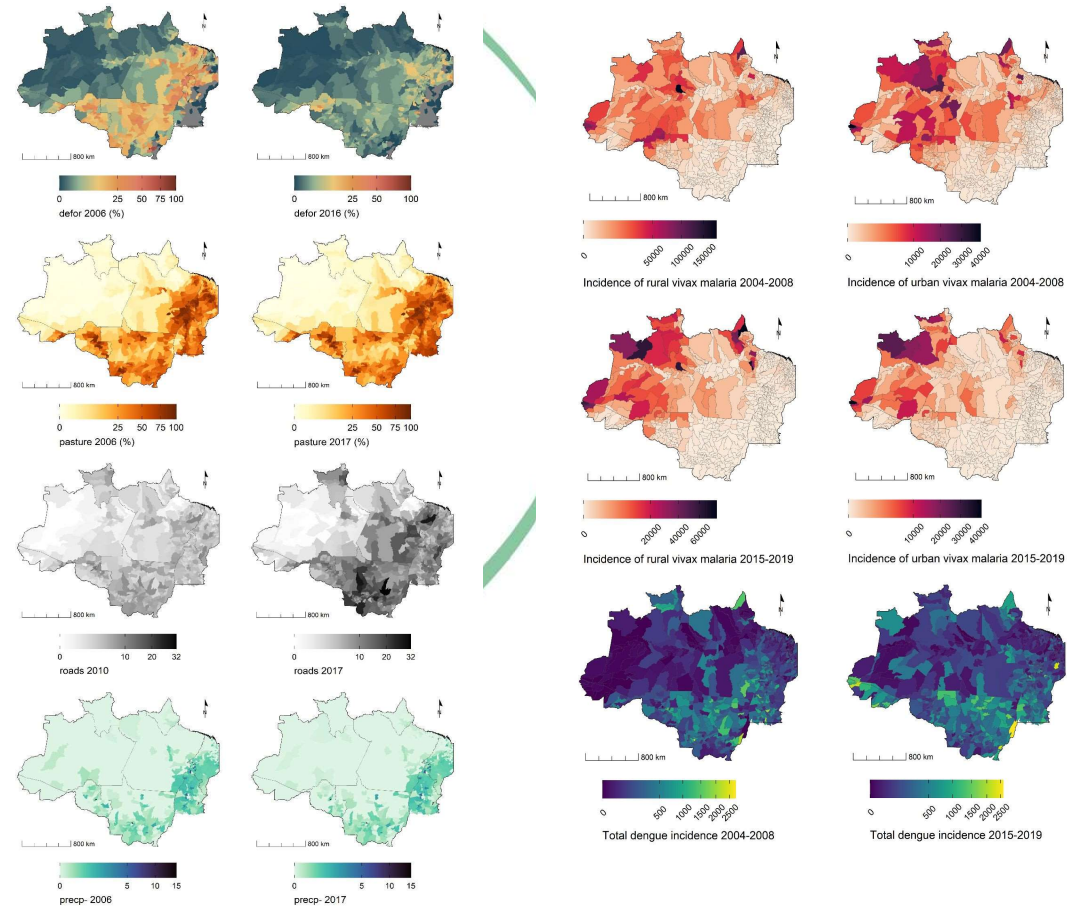
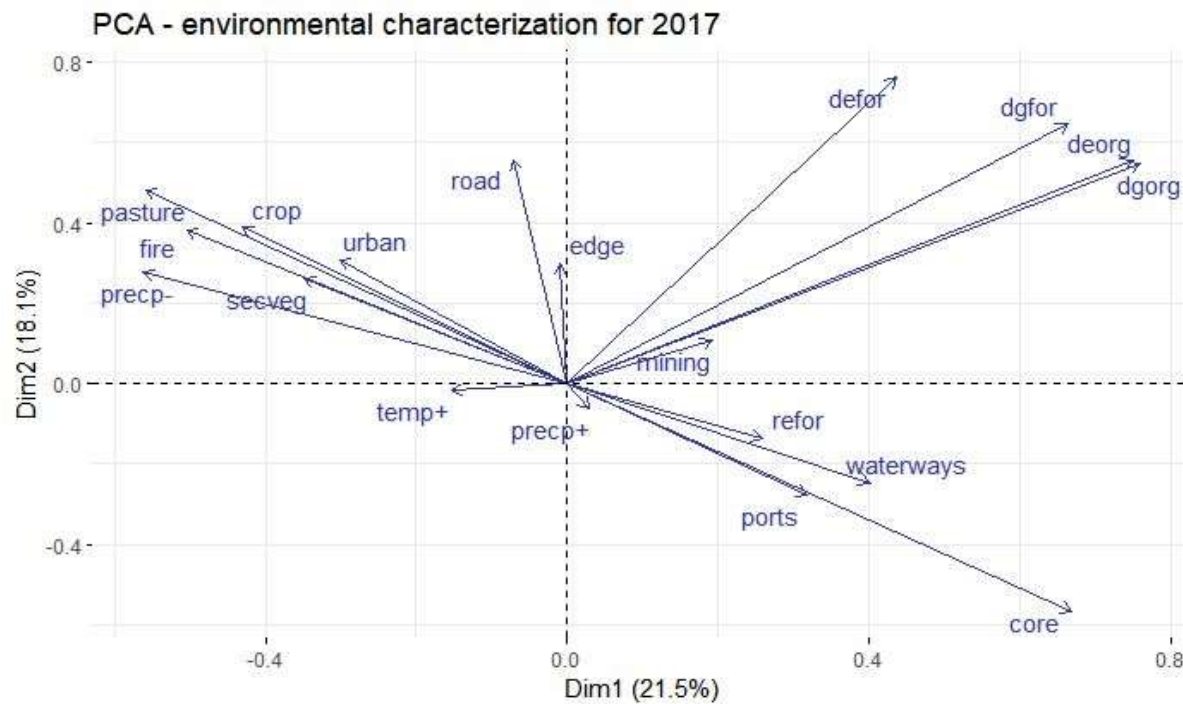


FIGURE 1 | Dominant Technological Trajectories (TT) in Amazon biome municipalities in 2017. The inset highlights the limits of the Brazilian Amazon (Amazon Biome and Legal Amazon).



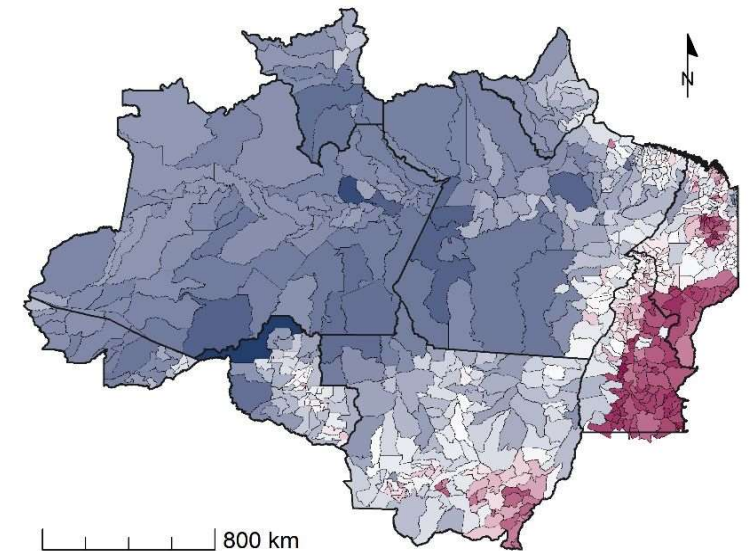
How different economic systems influence the environment and patterns of disease occurrence ?



higher

lower

Dimension 1 - Intensity of use



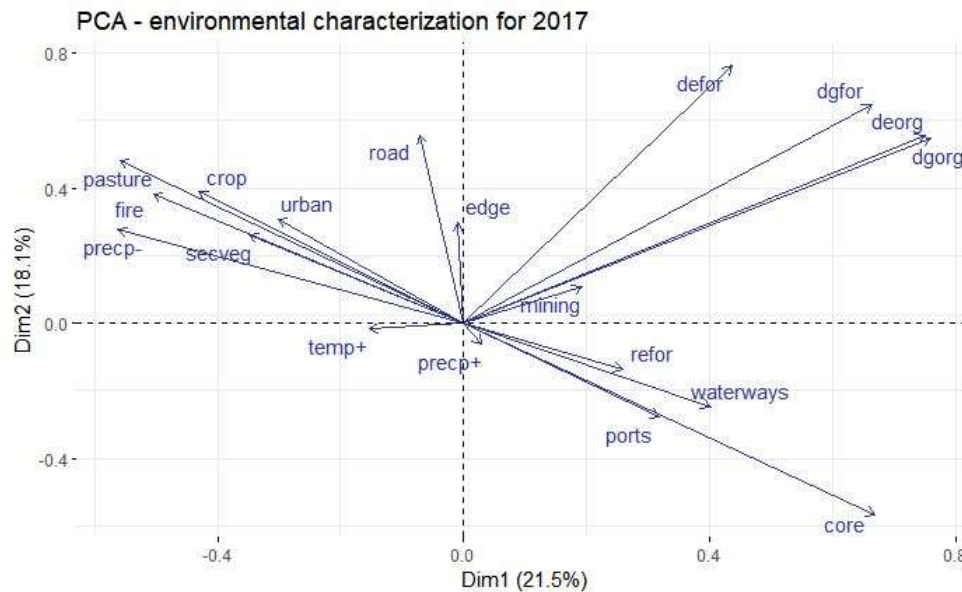
-4.53 0 4.19

DIM 1 - Coordenadas dos municípios (2017)

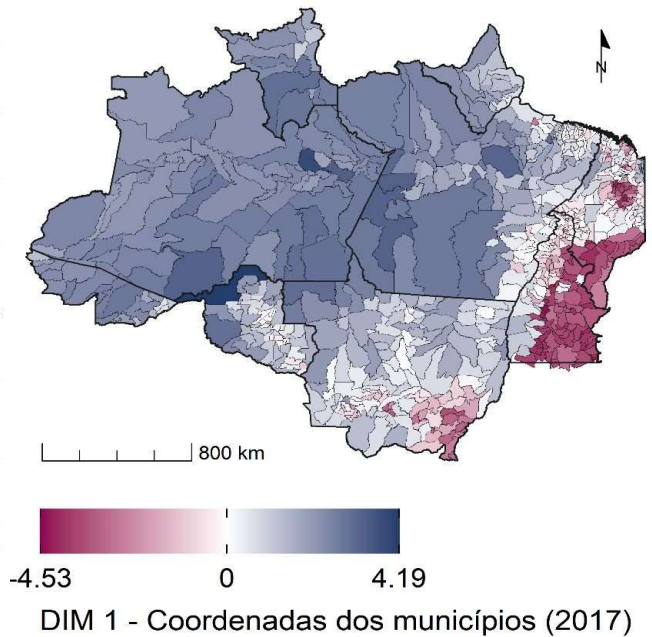
The variables that most contribute to this dimension are: forest degradation, deforestation, forest core area, negative precipitation anomaly, pastures and fires

How different economic systems influence the environment and patterns of disease occurrence ?

	Dim 1	Dim 2	Dim 3
Chagas	0.26	-0.14	-0.08
Esquistossomose	0	0.15	0.02
Hantavirose	0.08	0.13	0.18
L. visceral	-0.39	0.24	-0.19
L. tegumentar	0.34	0.05	0.3
Leptospirose	0.36	-0.13	-0.04
Tuberculose	0.32	-0.14	-0.08
Arboviroses	-0.01	0.22	0.31
Covid-19	0.11	-0.21	-0.01
Malária	0.63	-0.23	-0.1



Dimension 1 - Intensity of use

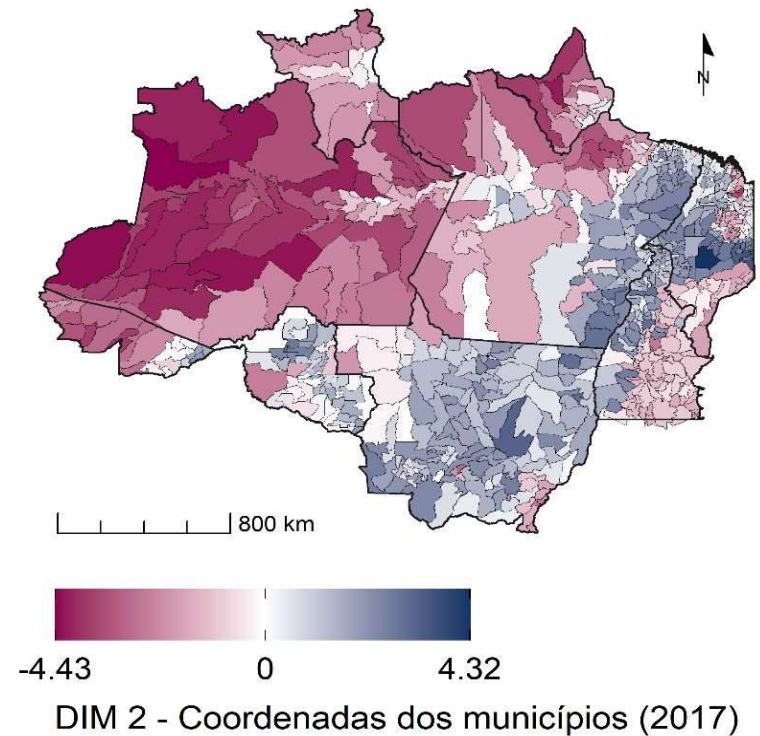
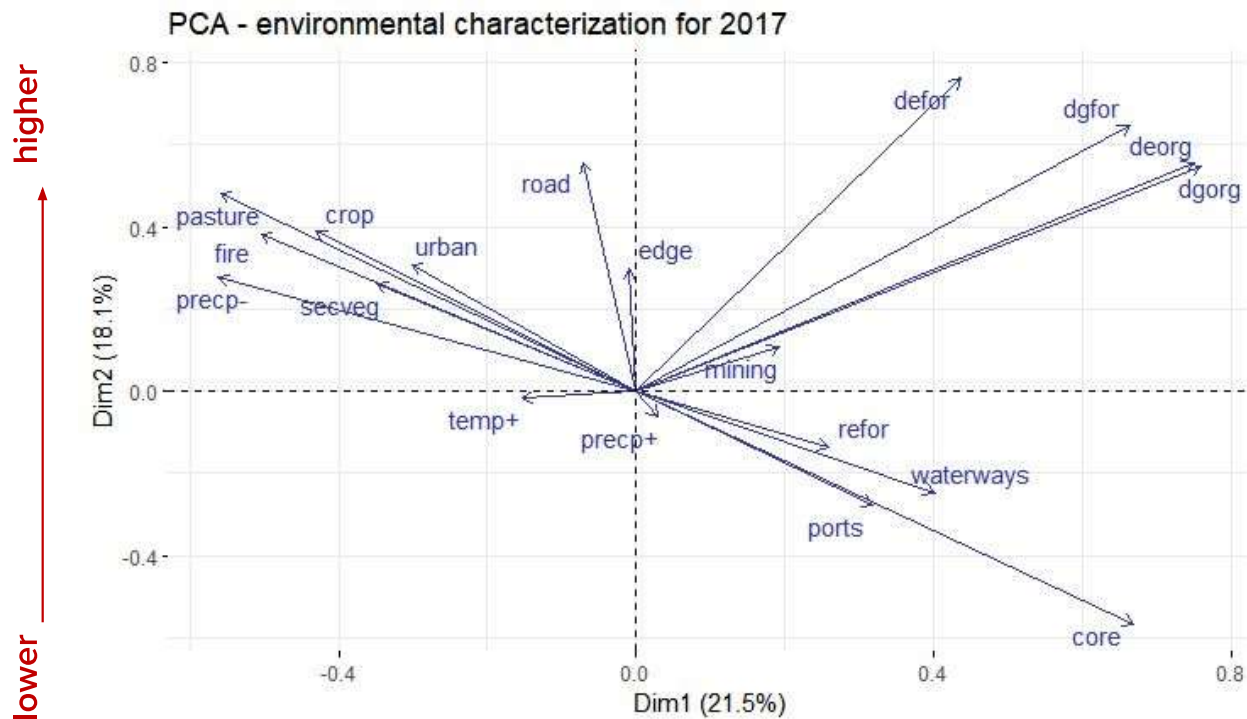


The variables that most contribute to this dimension are: forest degradation, deforestation, forest core area, negative precipitation anomaly, pastures and fires

It showed a strong significant association with the occurrence of malaria (rho = 0.63), leptospirosis (rho = 0.36), cutaneous leishmaniasis (rho = 0.34), tuberculosis (rho = 0.32) and Chagas disease (rho = 0.26).

How different economic systems influence the environment and patterns of disease occurrence ?

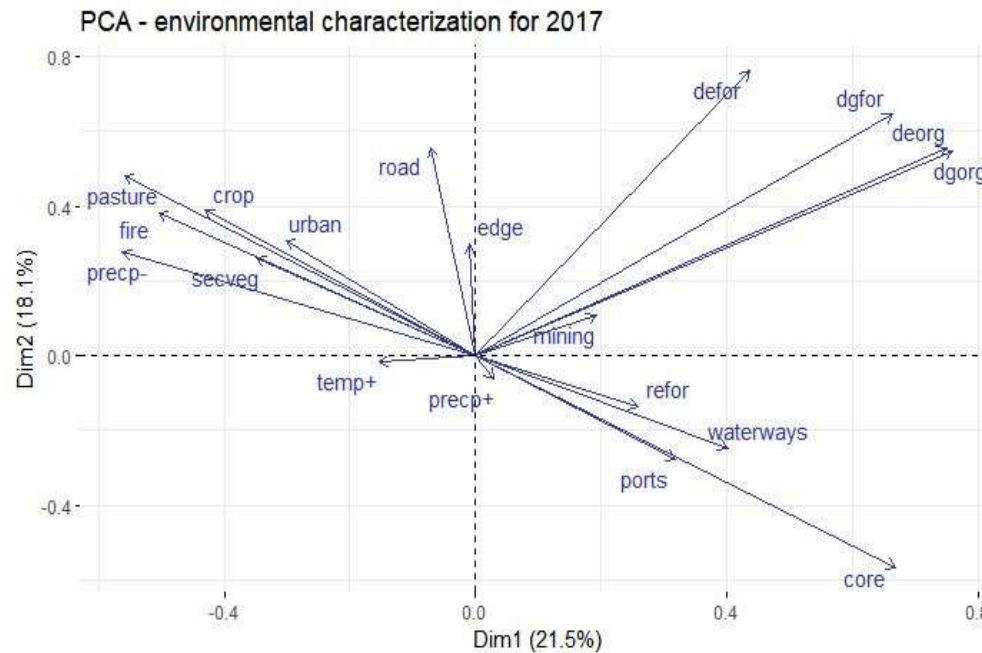
Dimension 2 – Environmental change



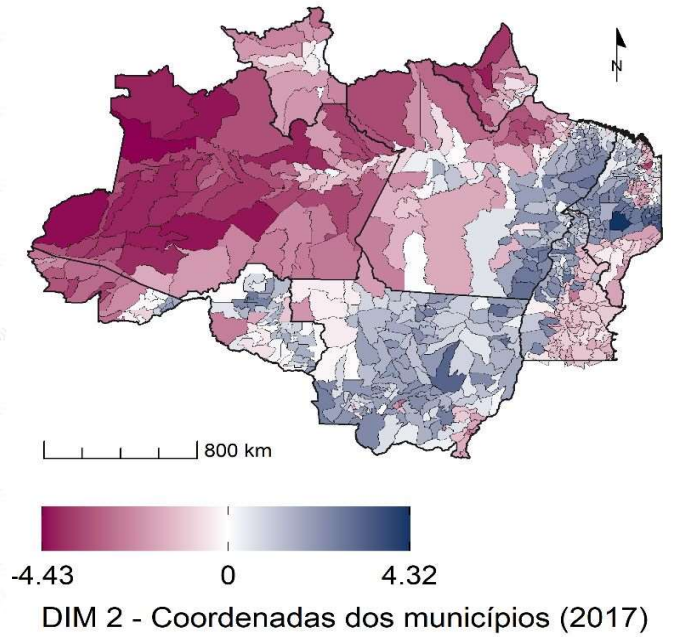
The variables that most contribute: deforestation, forest degradation, forest core area, the presence of roads and pastures.

How different economic systems influence the environment and patterns of disease occurrence ?

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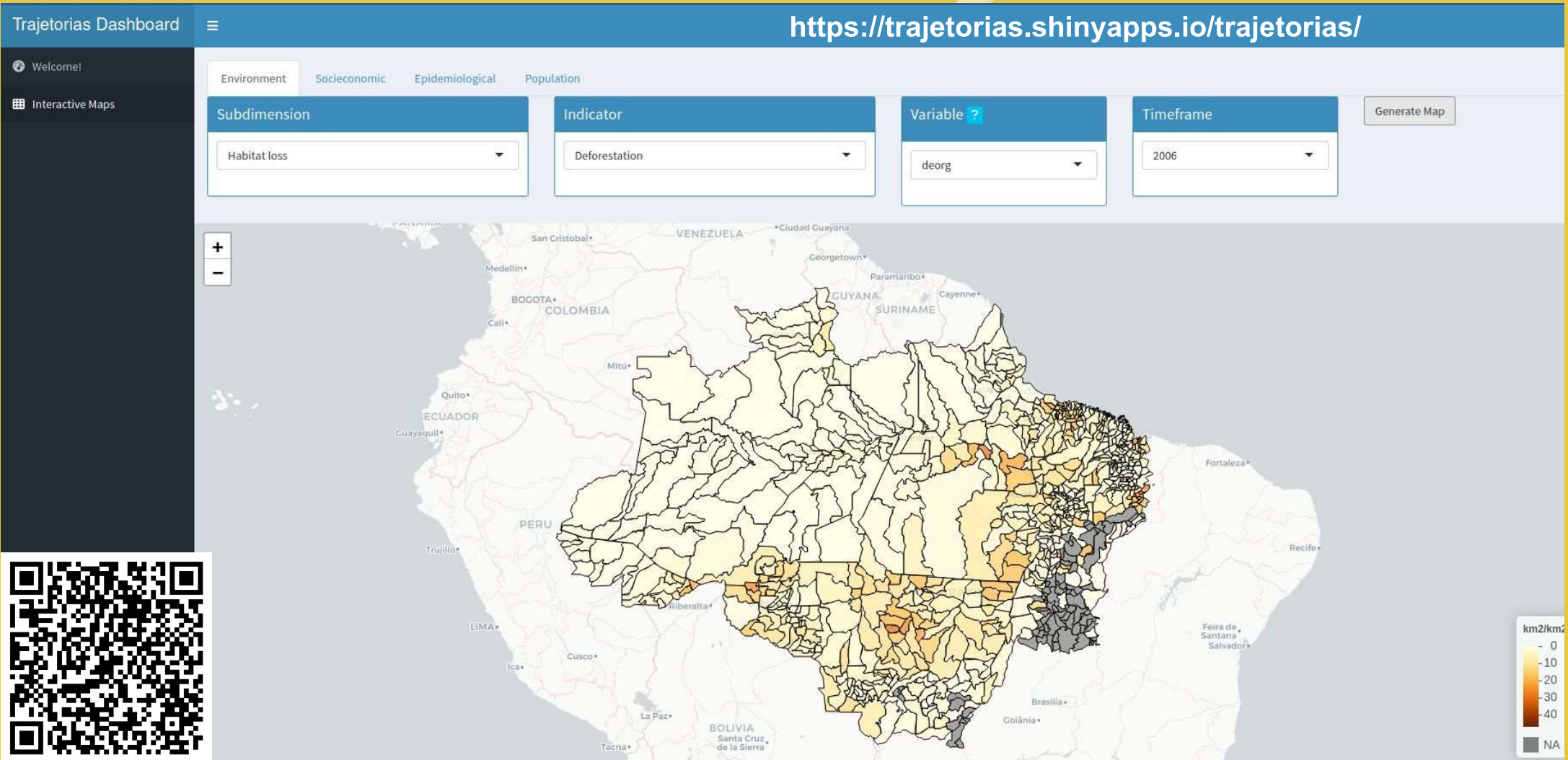
Dimension 2 – Environmental change



The variables that most contribute: deforestation, forest degradation, forest core area, the presence of roads and pastures

It showed a moderately significant association with visceral leishmaniasis ($\rho = 0.24$) and arboviruses (dengue, chikungunya and Zika) ($\rho = 0.24$).

Using the Trajetórias dataset

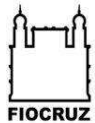


With this approach, we seek to contribute to a more integrated and complete narrative to describe the scenarios that impact both ecosystem and human health in the Amazon

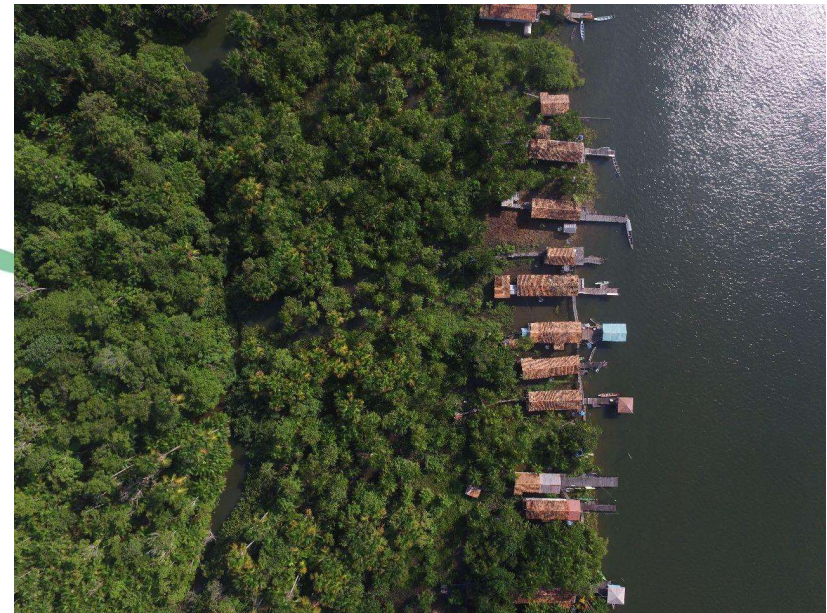
Thanks!

TRAJETÓRIAS

econômicas | ecológicas | humanas | epidemiológicas



Photos: LiSS



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

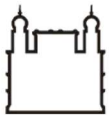
The recording, materials, presentations and resources will be shared on the **Fiocruz** and **Latin America and the Caribbean** knowledge hubs:

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



<http://bit.ly/trajetoriasfiocruz>

Thank you.



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