

# MUNICIPAL RISK REDUCTION PLANS AS STRATEGIES FOR CLIMATE AND TERRITORIAL JUSTICE: LESSONS FROM ILHÉUS, BRAZIL

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Photo: Gutierry Andrade



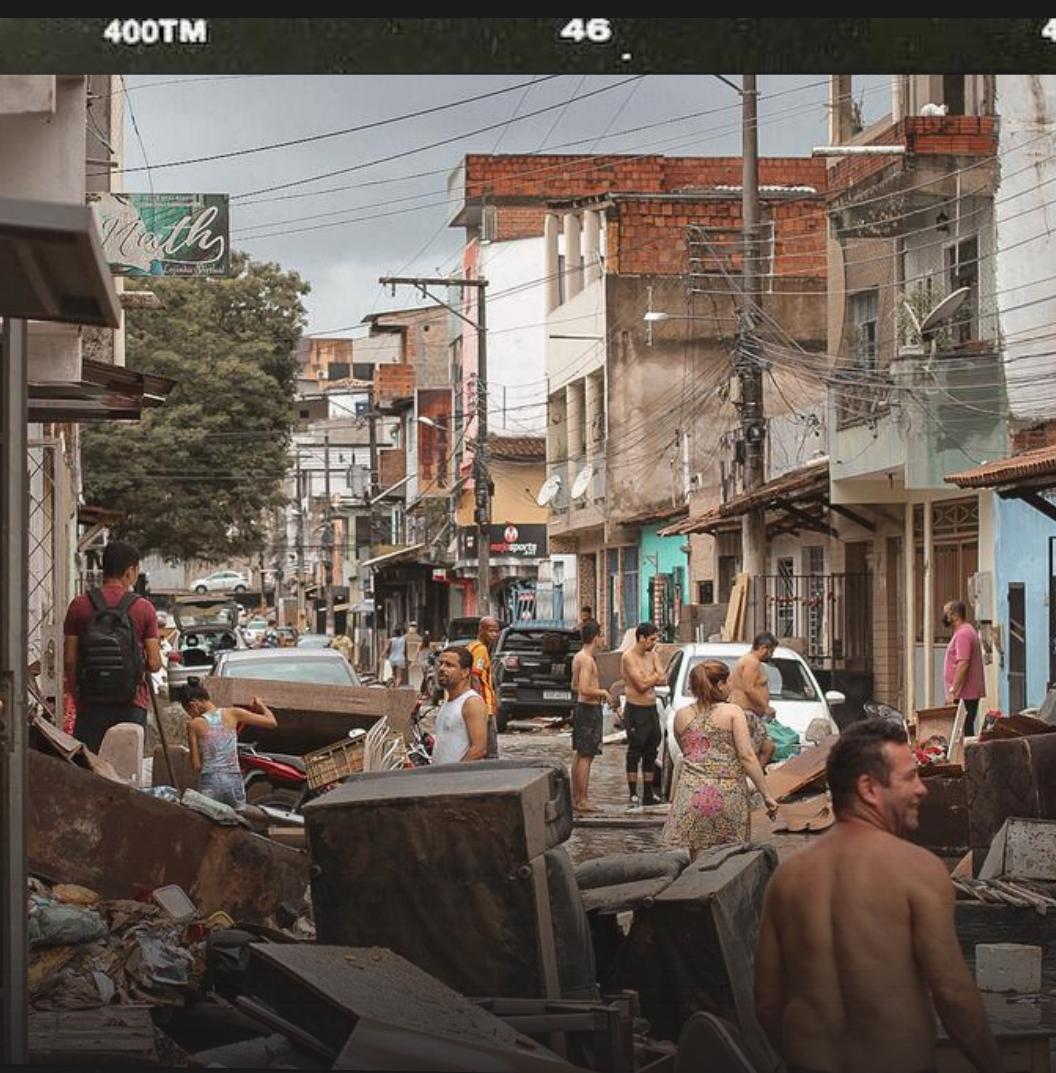
THE MONTHLY PRECIPITATION IN DECEMBER 2021 RANGED FROM 250% TO 430% ABOVE AVERAGE.

# CONTEXT

On December 28, 2021, the government of Bahia reported that **471,009 people were affected by heavy and persistent rains** over the past 30 days of that period. About **62,796 people were displaced** from their homes. The heavy rains triggered extreme flooding, led to the collapse of two dams, and caused significant economic losses.

# OBJECTIVES

This work discusses the importance of engaging communities in initiatives to develop solutions for urban areas that mitigate and prevent disasters. The Municipal Risk Reduction Plan (PMRR) introduces the principles of social justice through the concept of the right to the city, with a focus on vulnerable areas. The main goal is to reduce sociospatial inequalities.



400TM

46

400TM



47

400TM

48



400TM

49



# CONTRIBUTION

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The adaptation of tasks is carried out through a participatory process, in which the community's voice is actively heard and incorporated to guide the next steps in the plan's implementation. The institutional arrangements developed throughout the process contribute to the consolidation and contextualisation of the project, aiming to integrate territorial specificities, citizen participation, and key public actors in creating environments capable of safeguarding the lives of their residents.

**“If consumption builds the city, excess consumption destroys it” (Auzelle, 1972)**

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Photo: Gutierry Andrade





## CAPITALIST PRODUCTION OF SPACE - HENRI LEFEBVRE AND DAVID HARVEY

The production of space is a social and economic process structured by capitalism, where **space is not neutral** but a commodity appropriated and transformed to maximize capitalist accumulation. This process segregates, excludes, and reconfigures the urban environment according to the interests of capital.

## CITIES, MARKETS, AND THE URBAN CRISIS - ERMINIA MARICATO AND RAQUEL ROLNIK

Urbanization in the Global South occurs under an unequal and exclusionary **model**, where **the state and the market interact to reinforce a segregated urban development** pattern that expands informality, worsens housing conditions, and denies the right to the city to the majority of the population.

## URBAN RACISM - MILTON SANTOS, LÉLIA GONZALEZ, AND TANIA PACHECO

The Brazilian and Latin American city has been shaped by structural racism, where racialized populations have been systematically **marginalized in the urban** space. This marginalization determines who has access to urban goods, infrastructure, and environmental safety.

## MEDIUM CITIES - MARIA ENCARNACIÓN SPOSITO

Medium-sized cities have specific dynamics within the urbanization process, functioning as regional hubs that coordinate the **economy and territory**, but they also face issues related to infrastructure, planning, and socio-spatial inequality.

Photo: Gutierry Andrade

# ETHNOGRAPHY

Urban ethnography is an essential approach to understanding the **intersection between political economy, urban informality, and the climate crisis**. This methodology allows capturing the lived experiences of populations affected by territorial inequalities, revealing patterns of exclusion, resistance, and adaptation (Cordeiro, 2010).

Photo: Fieldwork Archive



# INTERVIEWS



Photo: Fieldwork Archive

# FEDERAL GOVERNMENT | MINISTRY OF CITIES

## UNIVERSIDADES PARCEIRAS



UFPR  
UNIVERSIDADE FEDERAL DO Paraná

UFPE  
UNIVERSIDADE FEDERAL DE PERNAMBUCO

UFBA  
Universidade Federal da Bahia

UFRGS  
UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL

UFRN  
UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE

UFSB  
UNIVERSIDADE FEDERAL DO SUL DA BAHIA

UFV  
Universidade Federal de Viçosa

UFAM  
UNIVERSIDADE FEDERAL DO AMAPÁ

UFPA  
UNIVERSIDADE FEDERAL DO PARÁ

UFSC  
UNIVERSIDADE FEDERAL DE SANTA CATARINA

UFMG  
UNIVERSIDADE FEDERAL DE MINAS GERAIS

UFES  
Universidade Federal do Espírito Santo

UFABC  
UNIVERSIDADE FEDERAL DO ABC

UNICAMP  
UNIVERSITÁRIO FEDERAL DE SÃO PAULO

UFF  
Universidade Federal Fluminense

UFSM  
UNIVERSIDADE FEDERAL DE SANTA MARIA

Ministério da Saúde  
PODER FONTE: Fundação Oswaldo Cruz  
Brasília

Periferia Viva

Ministério das Cidades

GOVERNO FEDERAL  
BRAZIL  
UNIÃO E RECONSTRUÇÃO



# PERIFERIA SEM RISCO

# Municipal Risk Reduction Plan (PMRR)

*Inspired by Periferia Viva - Brazilian Federal Guidelines*

## Specific Objectives

- Identify and map risk areas
- Quantify exposed population and buildings
- Prioritize interventions
- Structural & non-structural measures
- Integrate with urban planning
- Support disaster prevention policy

## Team Formation

- Municipal coordination
- Multidisciplinary technical team
- Support from universities & NGOs
- Community participation

## Methodology & Outputs

### Steps:

- 1. Preliminary data collection
- 2. Fieldwork (inspections, interviews)
- 3. Risk classification (R1-R4)
- 4. Risk maps preparation
- 5. Proposal of measures
- 6. PMRR final document

### Outputs:

- Technical report
- Georeferenced maps
- Prioritization table
- Intervention proposals
- Final PMRR document





Photo: Fieldwork Archive



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IN SCIENCE & TECHNOLOGY



# THANK YOU

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