COM PASSO

The participatory process in territories of climate vulnerability in Brazil

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Belo Horizonte, Brazil 2.5 million inhabitants 5.4 million in the metropolitan area 331 km² (127.80 sq mi)

ComPasso/EPIC-N Programme in Belo Horizonte

In 2017, during ICLEI's Resilient Cities Congress, the municipality and the Federal University of Minas Gerais started a partnership for the implementation of the Educational Partnerships for Innovation in Communities/EPIC program considering design sensitive approaches to be applied to some areas.



EPIC-N and its member programs unite <u>communities</u> with the <u>untapped potential of universities</u>.

<u>Communities</u> can confront their most pressing problems by accessing the excess human capital of <u>universities</u>.



"These strategies move us closer to our goals of a safe and livable community, a vibrant economy, and a healthy environment."

- Rick Scott, Former Director of Urban Development, Salem, Oregon, USA



https://www.epicn.org/whos-in-the-network/

Objectives:

Present the ongoing development of the EPIC-N program in Brazil, established in 2017

 Present the process of building innovative models of participatory planning for adaptation to climate change impacts in the city of Belo Horizonte.

Principes of the COMPasso program



The COMPasso (Resilient Communities) Program is a partnership between the Federal University of Minas Gerais (UFMG) and **Municipalities** in the State of Minas Gerais, Brazil. COMPasso engages the university community, municipalities' staff, non-profit agencies and communities vulnerable to effects of local climate change in planning participatory processes for improving urban sustainability, environmental education and actions for local problems solving.

Climate Vulnerability Analysis of Belo Horizonte

Belo Horizonte developed in 2016 an analysis indicating the existence of twelve hotspots of climatic vulnerability areas in its territory.





Climate Vulnerability Analysis of Belo Horizonte

Choice of two studies areas:

- Confisco Heat waves (plenty of climate exposure) and dengue, increased by high social vulnerability. Some slopes and valleys more embedded one observes increased values.
 Population: 4.669
- Paulo VI Highly susceptible to landsliding and heat waves. High social vulnerability and low adaptability of the region.
 Population 3.228

REGIONAL	BAIRRO	CLASSIFICAÇÃO EM 2016 RANK 2016	CLASSIFICAÇÃO EM 2030 RANK 2030
Centro-sul Center-south	Nossa Senhora da Conceição	1°	2°
Centro-sul Center-south	Marçola	2°	6°
Norte North	São Bernardo	3°	1°
Leste East	Granja de Freitas	4°	4ª
Norte North	São Tomaz	5°	5°
Leste East	Mariano de Abreu	6°	9°
Leste East	Vila Nossa Senhora do Rosário	7 ⁿ	76"
Norte	Heliópolis	8ª	133 ^e
Pampulha	Confisco	9°	3°
Leste East	Vila Boa Vista	10°	8°
Norte North	Mirante	57°	7°
Nordeste Northeast	Conjunto Paulo VI	70°	10°



DEFINITION OF THE CONTENT OF PROGRAM IN BELO HORIZONTE **DEFINITION OF STUDY AREAS**

2018

ESSAYS OF MOBILISATION OF THE CIVIL SOCIETY MOBILISATION OF TECHNICIENS

> **DEFINITION OF URBAN RESILIENCE ACTIONS AND PROPOSALS**

2019/ 2020

> **DEFINITION OF PROJETS SPECIFICAL OF EACH AREA** SEARCH FINANCIAL **SUPPORT**

2020/

2021

Presentation of the two studies areas

CONJUNTO PAULO VI



Deslizamentos Landslide

High voltage Transmission line and service area

Landslidings area Water springs

Conjunto Paulo VI



Conjunto Paulo VI

😫 Water springs

- Houses afected by water springs protection laws
- Houses afected by high voltage transmission line





Conjunto Confisco

Mata do Confisco



Ondas de Calor Heat Waves

High Climatic exhibition

Flooding area

Google Earth

19°51'46.58"S 44°01'21.99"O elev 871 m altitude do ponto de visão 1.48 km 🔾

Conjunto Confisco





TECHNICAL UNDERSTANDING OF PROBLEMS

2017

MEETINGS WITH THE COMMUNITY



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TECHNICAL UNDERSTANDING OF PROBLEMS

2017

MEETINGS WITH THE COMMUNITY

SOME INITIAL URBAN DESIGN PROPOSALS PREPARED BY THE UNIVERSITY (WITH PARTICIPATION BY THE MUNICIPALITY)

2018

VERY LITTLE PARTICIPATION OF CIVIL SOCIETY

QUESTIONNAIRE **APPLICATION TO**

2019

TECHNICAL UNDERSTANDING OF PROBLEMS

MEETINGS WITH THE COMMUNITY

SOME INITIAL URBAN DESIGN PROPOSALS PREPARED BY THE UNIVERSITY (WITH PARTICIPATION BY THE MUNICIPALITY)

QUESTIONNAIRE/SU RVEY APLLIED TO RESIDENTS: PROFILE AND PERCEPTIONS OF ENVIRONMENTAL AND CLIMATIC ISSUES

VERY LITTLE PARTICIPATION OF CIVIL SOCIETY GEODESIGN METHOD APPLIED FOR CHILDREN 6 TO 10 YEARS





LABORATÓRIO DE INFORMÁTICA

GEODESIGN METHODE







TECHNICAL UNDERSTANDING OF PROBLEMS

MEETINGS WITH THE COMMUNITY

SOME INITIAL URBAN DESIGN PROPOSALS PREPARED BY THE UNIVERSITY (WITH PARTICIPATION BY THE MUNICIPALITY)

RESIDENTS: PROFILE AND PERCEPTIONS OF ENVIRONMENTAL AND CLIMATIC ISSUES

APPLICATION TO

QUESTIONNAIRE

VERY LITTLE PARTICIPATION OF CIVIL SOCIETY GEODESIGN METHOD APPLIED FOR CHILDREN 6 TO 10 YEARS APPROACH TO EXISTENT GROUPS AND/OR ANOTHER PROJETS IN THE COMMUNITIES GEODESIGN WITH ADULTS OF COMMUNITIES: CONSTRUCTION AND DEFINITION OF URBAN RESILIENCE ACTIONS AND PROPOSALS

FOLLOWING-UP BY THE MANAGEMENT GROUP



SOCIETY

6 TO 10 YEARS

PROPOSALS

Main Difficulties and lessons learned

- Challenge to mobilize the community implies in thinking strategies to be able to mobilize communities
- Despite a historical process of popular participation in public policies in Brazil since the 1990's, the <u>community is discredited</u> in relation to the performance of public power
- <u>University seems to have more legitimacy</u> to bring new answers for the community problems
- Each study area has it own specificity who brings <u>different ways</u> of approaching to the community

Thanks for your attention!

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Sign up to receive free resources to 'Just Start' your EPIC-N program: <u>https://goo.gl/S4wBgt</u>

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