BeBrit Extreme Heat Risk Project City Case Study

ABOUT THE CITY OF BRASÍLIA

Brasília is known for its modernist architecture and UNESCO World Heritage status. Despite its planned urban structures and green spaces, Brasília faces key climate challenges. The endangered Cerrado biome could see temperature rises of up to 5.5°C and rainfall drops of 45% by the century's end, increasing drought, deforestation, and fire risks in urban areas. Water security has long been a concern in the capital, and is worsened by recent extreme droughts and heatwaves, which strain resources. In 2023, driven by El Niño and global warming, Brasília experienced nine unexpected heatwaves. With current federal climate policies deemed insufficient (Climate Action Tracker, 2022), Brasília must take action to understand and address heat risk.

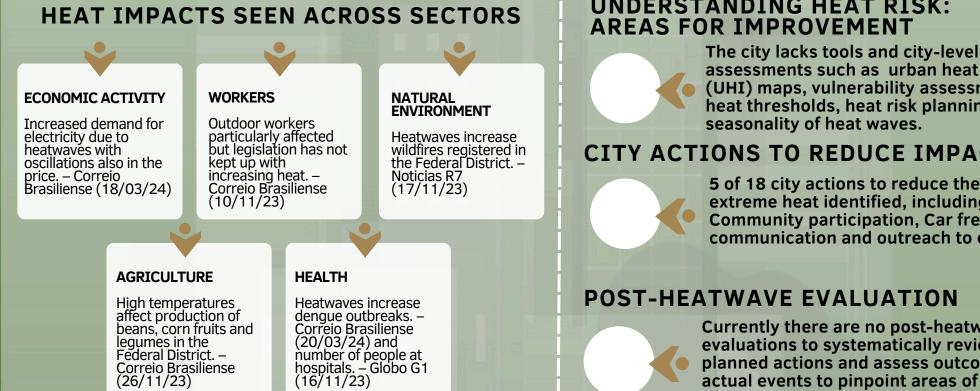


Brasília, DF

Brazil's capital and third most populous city with 2.8 million inhabitants



Photo Source: Ramon Bucard on Unsplash



CITY READINESS FOR HEAT RISK - EXAMPLES

SILENTSPRING

UNDERSTANDING HEAT RISK:

assessments such as urban heat island (UHI) maps, vulnerability assessments, heat thresholds, heat risk planning and

CITY ACTIONS TO REDUCE IMPACT

5 of 18 city actions to reduce the impact of extreme heat identified, including: Apps, **Community participation, Car free zones,** communication and outreach to citizens.

POST-HEATWAVE EVALUATION



Currently there are no post-heatwave evaluations to systematically review planned actions and assess outcomes of actual events to pinpoint areas of improvement.

- **Potential Danger**
- Danger

City Master Plans

Brussels Centre

for Urban Studies

Territorial Master Plan (Plano Distrital de **Ordenamento Territorial -PDOT**) establishes 4 categories of forest conservation - important considering role of forested areas in reducing heat.

Correio Brasiliense

(26/11/23)

Building Codes

Thermal Performance of Building Standards (ABNT 2005) offer guidelines of home constructions per climatic zone with info on ventilation, shading and thermal conditioning per season.

Heat Alerts

the LONDON SCHOOL

OF ECONOMICS AND

POLITICAL SOLIVER



Interactive heat wave maps emitted by INMET National Institute of Meteorology based on 3 color-coded levels. Citizens can then sign up to receive alerts from the local civil defense authority with directives on how to stay safe.

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into the Brasilia Case Study, discover lessons learned and find links to resources

www.bebritproject.com

