

Overview

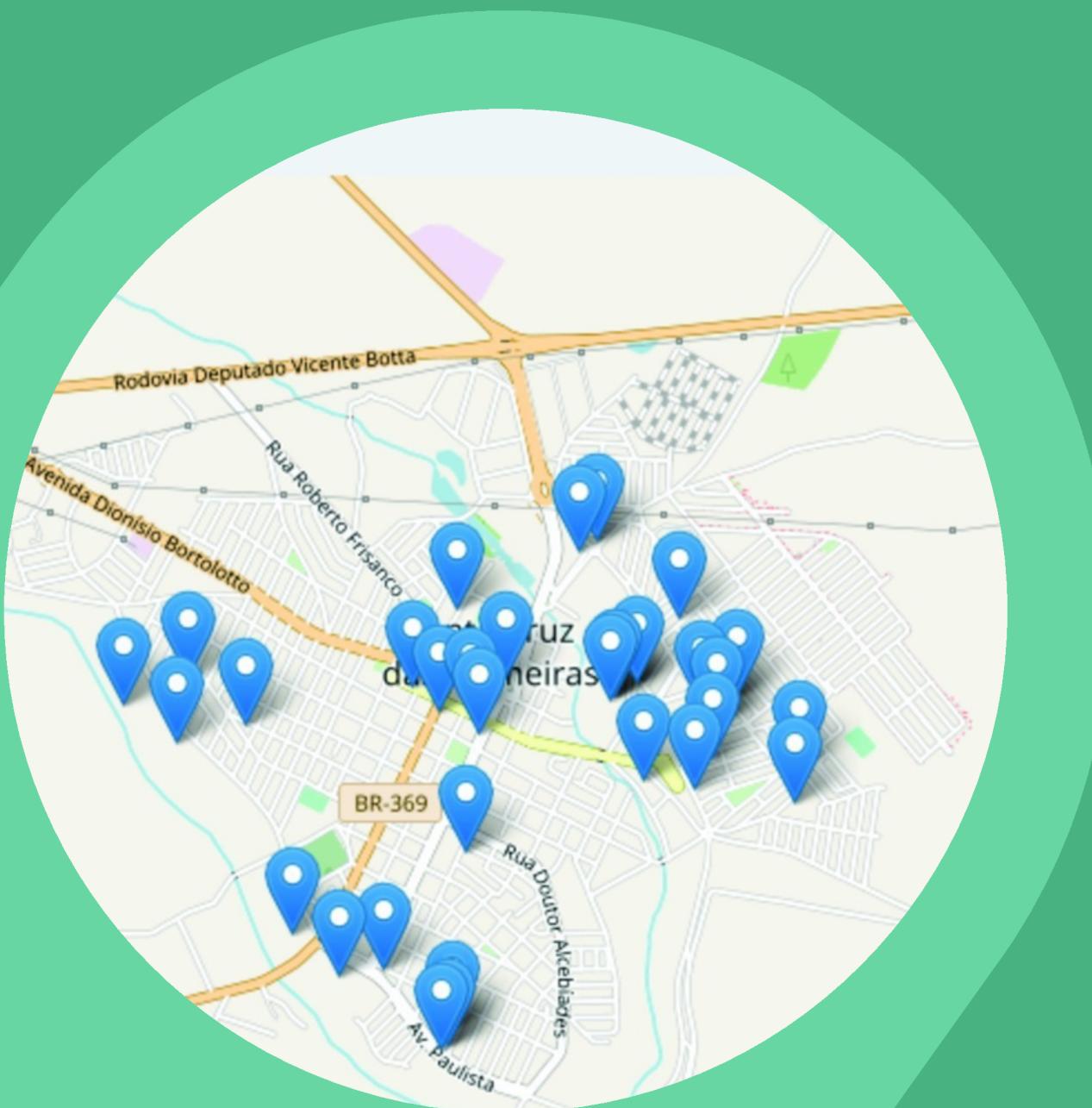


DENGUETRACKERGIS

Interactive GIS-based platform

- Introduction to DengueTrackerGIS
- System Operation
- Visualization in Interactive Map
- Control Panel (Dashboard)
- Integration with the Community
- Geographic Analysis and Prevention
- Importance and Benefits

The DengueTrackerGIS is an interactive GIS-based platform that enables real-time tracking and analysis of dengue spread. It combines epidemiological and geographical data to provide a holistic view of the disease and assist in preventive decision-making.



System Operation

- How It Works

HEALTH DATA INPUT:

Health professionals input suspected, confirmed, and discarded cases.

PATIENT MONITORING:

The locations of confirmed cases are recorded to identify hotspots.

VECTOR TRACKING

Mosquito breeding sites are georeferenced, allowing targeted action against breeding grounds.



Visualization in Interactive Map

Geographic Mapping of Dengue Content:

DENGUE CASES

Suspected,
Confirmed,
Discarded

LOCATIONS:

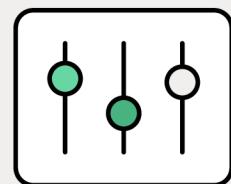
locations of mosquito breeding sites.

RISK CONDITIONS

Geographic risk conditions (water accumulation, dense vegetation...)

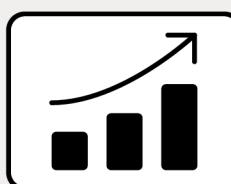
Control Panel (Dashboard)

Real-Time Analysis and Monitoring



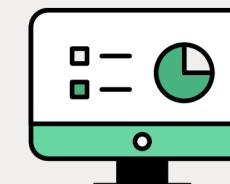
VIEWING

Viewing the number of active cases by region



MONITORING

Monitoring the elimination of breeding sites



TRACKING

Tracking preventive actions in critical areas



Integration with the Community

Collaboration with Establishments and Community



MODULE

A module for business to verify customers who are in quarantine.

COMMUNITIES

Communities can report mosquito breeding sites directly on the platform, assisting the surveillance team

DATA COLLECTION (GLOBER OBSERVER)

Encourage Observations: participants to record observations about the presence of mosquitoes in critical areas.

Environmental Conditions: Users can log data on temperature, humidity, and soil characteristics that are relevant to mosquito habitats.



Geographic Analysis and Prevention

CONTENT:

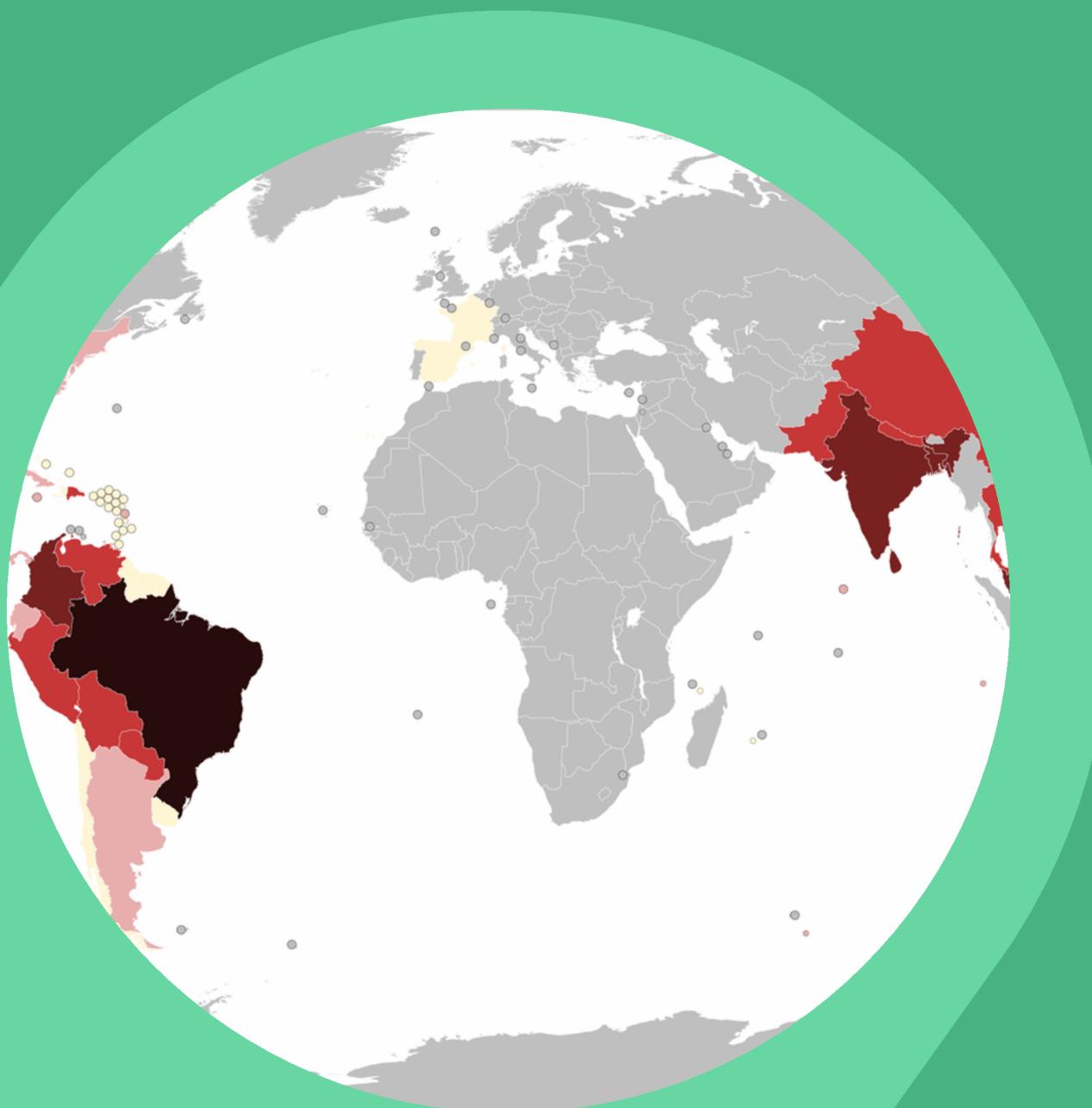
- The System cross-references open data, such as weather and proximity to rivers, with mosquito breeding sites.
- It generates alerts and insights that guide **dengue control actions in vulnerable areas.**

TRAINING AND EDUCATION:

- Use NASA Worldview as an educational tool in workshops and lectures, demonstrating how technology can be used to combat diseases such as dengue



DengueTrackerGis



Importance and Benefits

- **Importance of DengueTrackerGIS**

CONTENT:

- The system optimizes dengue control, reducing the number of infections and enabling quick and precise actions. By integrating epidemiological and geographical data, the platform contributes to more effective resource management and improves the quality of life for the population