

We have e plan:

act now

*Tenemos un Plan: **actuar ahora***



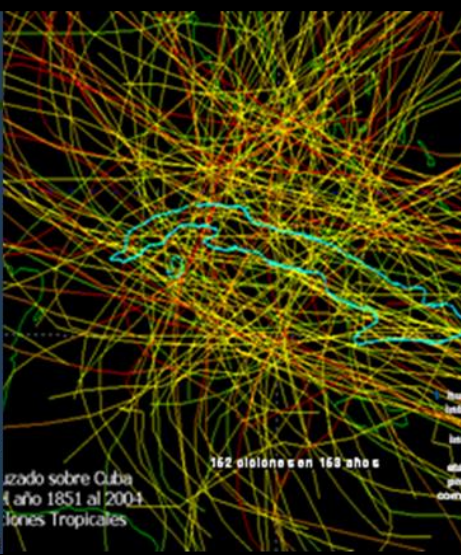
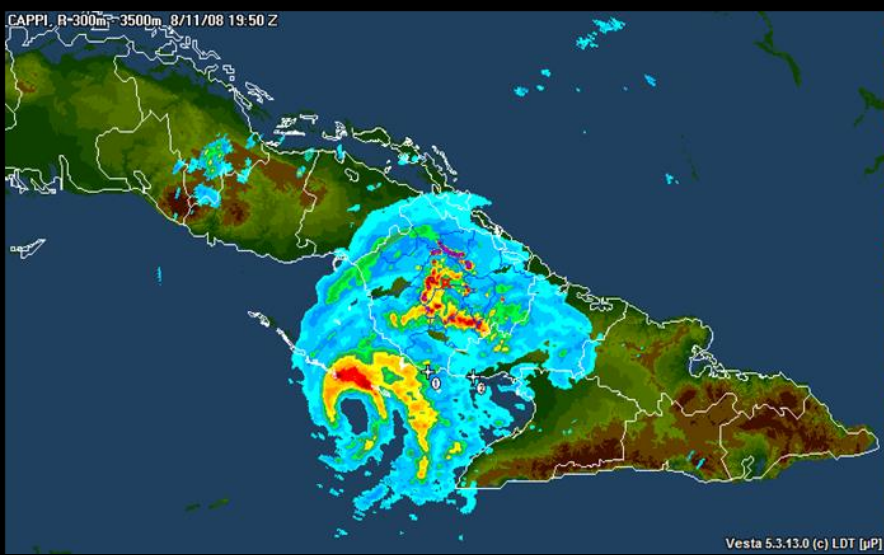
Cuba

Cuba

INOTU
INSTITUTO NACIONAL
DE ORDENAMIENTO TERRITORIAL
Y URBANISMO



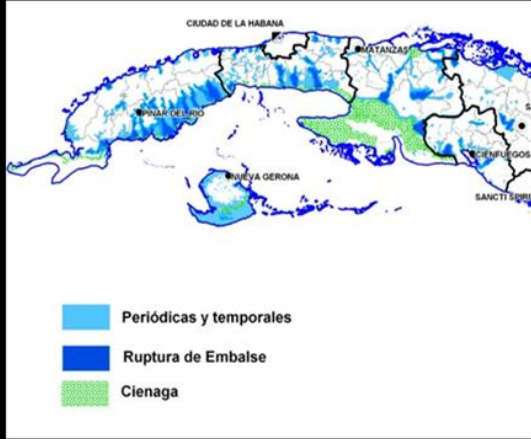
TERRITORIAL AND URBAN PLANNING IN ORDER TO PREVENT SOME SEVERE HAZARDS AND ADAPTATION TO CLIMATE CHANGE IN CUBA



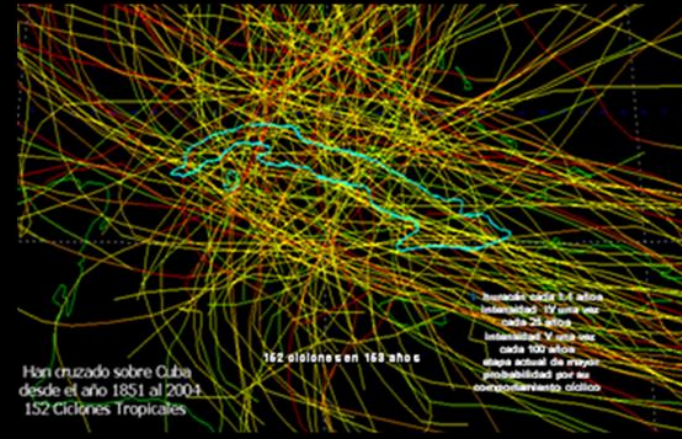
Cuba

The biggest disasters are associated with severe hydrometeorological events

Rainfall



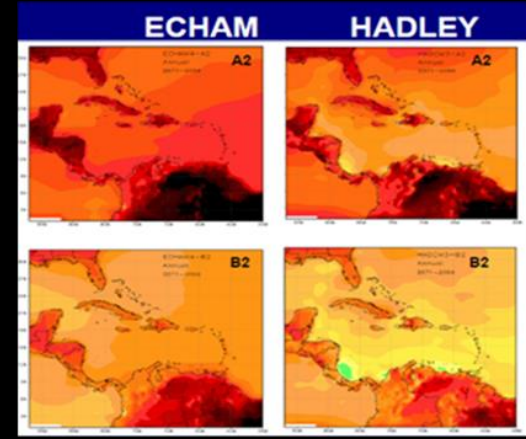
Hurricanes



Winds



Temperature



Drought



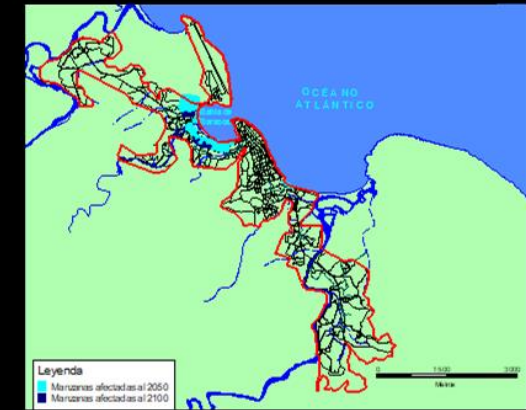
Upwelling and waves



Flooding due to heavy rains



Mean Sea Level Rise



These events are reinforced by climate change

Strategic action (5)

5. Plan within the specified time frames the processes of urban reorganization of threatened settlements and infrastructures, in accordance with the economic conditions of the country. Start with lower-cost measures, such as induced natural solutions (beach recovery, reforestation).

Tasks (11)

7. Maintain and introduce the scientific results of the Macroproject on Danger and Vulnerability in the Coastal Zone (2050-2100) in the Territorial and Urban Planning Plans; as well as studies on Hazard, Vulnerability and Risks in the disaster reduction cycle. Use this information as an early warning in decision-making
8. Implement and control climate change adaptation and mitigation measures derived from sectoral policies, plans and projects related to food security, renewable energy, energy efficiency, territorial and urban planning, fisheries, agricultural activity, health, tourism, transport, industry and integrated forest management.

**State Plan for the
Implementation of the
New Urban Agenda in
Cuba 2017-2036**

Strategic Axes (8)

8. Risks and Climate Change

Work Lines (24)

WL 22. Reducing the exposure of human settlements to risks

WL 23. Increasing the resilience of human settlements

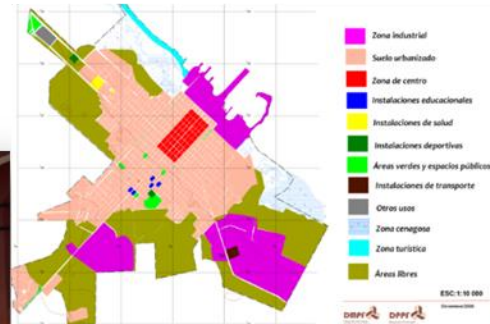
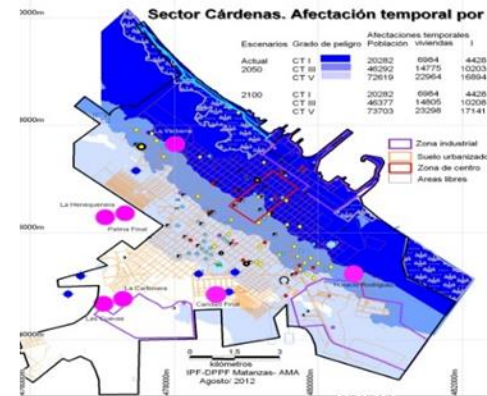
WL 24. Applying nature-based solution to reduce vulnerabilities

Cuba

Life Task

The measures, actions and investments that are currently being implemented include: the scope of disaster reduction, mitigation and adaptation to climate change as part of sustainable development.

Cárdenas, Matanzas



Case Study Project 8, 2015

Accommodation proposal

P V R and climate change studies allow:

- Have a view of the degree of danger, components that affect the formation of a given hazard.
- Identify types of vulnerabilities.
- Hazard concomitance zones.
- Recommendations of practical use for land use planning and urban planning.

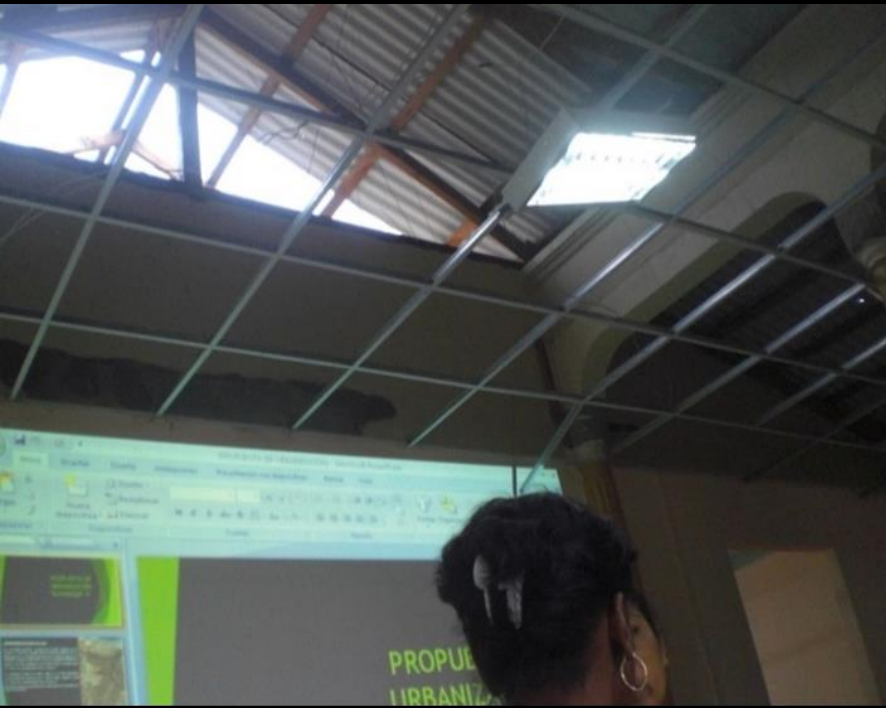


Case Study City of Baracoa

Post-Hurricane Matthew (Category IV)



In the 21st century, 10 cyclones have hit the country, 5 of them have impacted the city



First Work Sessions



- Survey of loss of homes.
- Micro-location of newly developed areas.
- Updating partial plans.

Immediate recovery with the participation of the Physical Planning System (nation, province and municipality) together with the Civil Defense and Government.

Participatory planning



Strategic lines of action

**I. Risk Management &
Adaptation Solution.**



**II. Qualification of the
urban landscape.**



**III. Technical infrastructure
system.**



Cuba

Participatory Territorial and Urban Planning as a technical and government tool for the prevention and adaptation to climate variability and change.

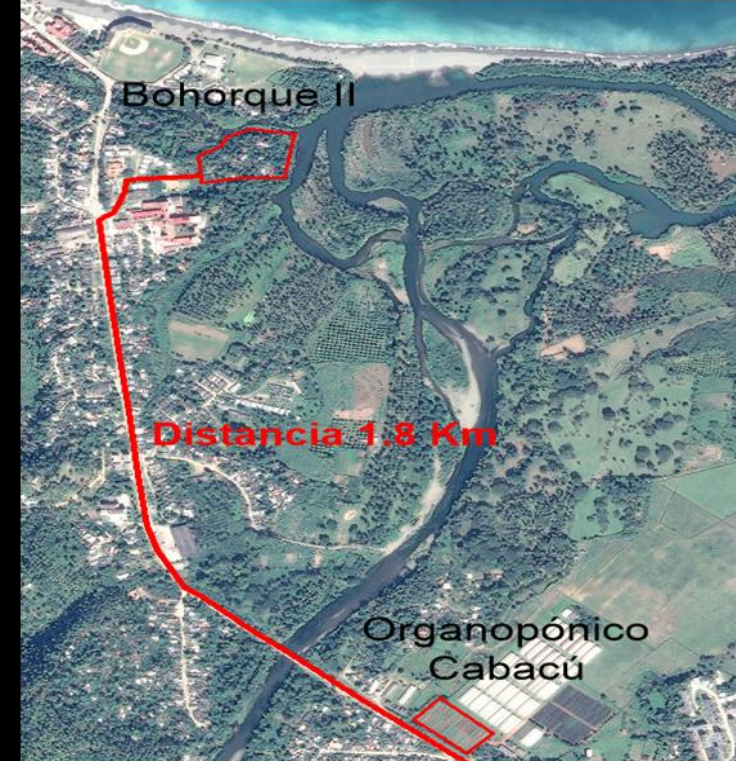
CONCLUSIONS



Paraíso (Tourism Booking)



Bohorque



Cabacú (Special Drainage Studies)



www.inotu.gob.cu