BUILDING RESILIENCE OF COMMUNITIES FROM HIGHLANDS TO OCEANS IN THE FACE OF CLIMATE CRISIS

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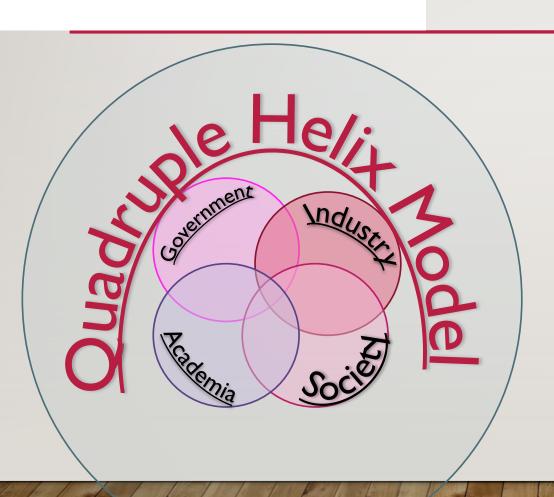
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MAIN GOAL

To effectively contribute to building resilience in lieu of the XX1 Century challenges, which include to reduce the risk of natural and anthropic hazards for sustainable development





Sendai Framework of Action for DRR



Sustainable Development Goals



Paris Agreement on Climate Change-IPCC



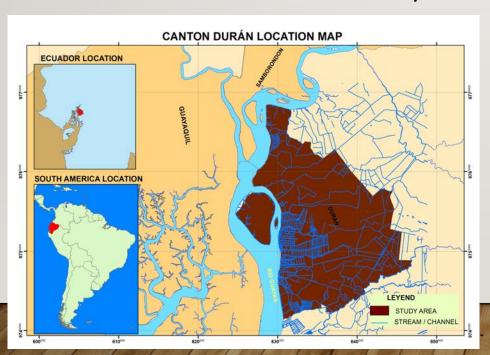
The New Urban Agenda

Management Model

Capacity Building for Climate Resilience in a middle size municipality: the Duran case at Ecuador by ESPOL Team

DURAN city is affected by recurrent flooding due to extreme precipitation events, extreme tides and inefficient drainage system

MAIN GOAL: to assess the causes of Duran's vulnerability by considering exposure, population sensitivity and adaptive capacity to establish alternatives to reduce its vulnerability to flooding





CO-PRODUCTION PROCESS BETWEEN ACADEMIA, GOVERNMENT AND COMMUNITIES FOR THE URBAN AGENDA UNDER CLIMATE CHANGE

Alliance with key stakeholders for the National Urban Agenda (NUA):
- public sector, local government, academia, innovation hubs, communities, private sector, to determine needs and priorities locally



Academia Position

Capacity Development: acknowledging the NUA and climate change actions by the local government for several stakeholders under different learning.

Product development, innovation & transfer **Co-production**

Funding

and

Sustain

ability

manage

ment

Services: Product implementation with local governments

Co-production

Knowledge Virtual Platform: data generation and information management

Applied Research for the National Urban Agenda:

to generate evidence for decision-making and interventions in the territory with a focus on Climate Change and Sustainability.

Advisory Academic Council+

Development of Options, Strategies, and Policies to be adopted by different actors, sectors and scales (local, regional, national).



Monitoring and Assessment

DESIGNING STRATEGIES FOR CLIMATE RESILIENCE IN CITIES

- Strategic Objective I: to aprove city mandates that adopt the Sendai Framework of Action for DRR principles and Adaptation to Climate Change in the Land Use and Resilience Planning.
- **Strategic Objective 2:** To strengrthen institutional gobernance and socia capacity within the communities for resilience.
- Strategic Objective 3: To adopt knowledge management and urban innovation
- Strategic Objective 4: to add Urban Lansccape design and ecosystems for resilience into city planning

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Precipitation levels and their impacts



Coordination with Duran Risk Unit



Validation of vulnerability and risk levels to floods



Risk Analysis



Monitoring and Alert

Design and strengthening of the monitoring network

Response plan to floods by Duran Risk Unit and the community

Preparation and Response



Dissemination and Communication



To establish communication channels between Duran Risl Unit and the community

Design and application of response

Linkage with Risk Management Committee and Neighborhood

