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Importance of Mapping in the Analysis of Climate Change Risk Impacts and the Pathways to Resilience

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**Abstract**

The beginning of the presentation will start distinguishing between climate change mitigation and adaptation, two fundamental approaches to addressing climate challenges. However, the study has been focused on adaptation, highlighting its crucial role in enhancing resilience at different scales.

To understand and reduce the impacts of climate change, it is necessary to comprehend and study the main climatic risk, which the IPCC defines as a combination of three main components: hazard, exposure, and vulnerability. Vulnerability itself consists of two sub-components—sensitivity, and adaptive capacity. Once the components of climate risk are established and understood, it is important to talk about practical applications. It will explore methodologies for assessing climate-related risks in municipalities, provinces, territories, or specific sectors.

Geographic Information Systems (GIS) over recent decades have redefined the role and potential of maps as research tools. Maps are no longer static and stable sources of information; they have evolved into interactive and dynamic tools for analysis and visualization. Particular attention will be given to the role of mapping techniques in visualizing and analyzing the spatial distribution of risk.

Mapping enables the identification of the most impacted areas, focusing efforts in the real affected zones, or territories. By integrating spatial analysis into adaptation planning, it is possible to prioritize resilience-building efforts and allocate resources efficiently, in the most critical areas.

However, visualizing certain climate change impacts on maps presents challenges. There are difficulties in selecting the most appropriate quantitative methods for different types of risk, determining which indicators contribute meaningfully to geographic information, and assessing when an excess of data adds complexity without real value.

Finally, this study presents a selection of case studies that have successfully applied mapping techniques to analyse and address climate-related risks.

**Keywords**

“adaptation”, “Climate Change”, “Climatic risk”, “Mapping”, “Resilience”

Please provide 5-10 Keywords separated by semicolons (“;”).

**Recent Publications:** Minimum 3 publications to be included (Not mandatory)

**Biography**

I'm Marta Henrich, a graduate in Geology and Environmental Sciences with a master's degree in Spatial Planning and Environmental Management, certified in Excel PRO Expert and with knowledge in GIS software and Power BI. With over 4 years of experience in environmental consulting, specialized in the field of climate change. My expertise shines through the involvement in projects related to studying vulnerability mitigation and adaptation to climate change at both local and international levels, climate risk assessment, drafting Climate Action and Energy Sustainability Plans (PAESC), Sustainable Development Goals (SDGs) projects, and Partial Territorial Plans (PTP).

Moreover, I've contributed to the sustainable mobility sector, specifically in Urban Goods Distribution and electric vehicles. Furthermore, I demonstrated my proficiency in the realm of environmental education as a monitor and communicator.

**Presenting Author Details and Photo**

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