Cortés Data Hub: a pilot project for data integration and earth observations for the Cortés Department, Honduras

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Introduction

• Proper territorial data management is critical for territorial planning projects, research, innovation, and the appropriate follow-up to act for the well-being of populations.
• Data integration is an approach to combining data from varied sources to create unified sets of information that can be used for analysis and decision-making.
• This approach could help the regional development, sanitary control, and disaster mitigation in Cortés.
• Cortés is in Northern Honduras and is considered the industrial region of the country, and continually faces hurricanes, storms, floods, and landslides.

Methods

Multidisciplinary team of professionals

Cortés Data Hub (pilot project)

Dashboards by topic

Data of multiple sources

ArcGIS PowerBI Tableau Google Earth

Data

Cortés Data Hub initial page. An interactive environment is available to navigate into the different sections.

Different types of graphs, statistics and maps are available for territorial observation.

Energy demand in the department.

Several offices of the San Pedro Sula Municipality joined in a study about the impact of hurricanes and the COVID-19 pandemic on its population. Data will be used to allocate funding for interventions.

Conclusion

• Training more academics, government teams, and decision-makers in the use of new tools for earth observations and data integration are important for the Cortés development.
• The challenges to overcome are the quality and timing of data.

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