

# BLUEFIELDS CLIMATE SMART AND RESILIENT SETTLEMENT

## INTRODUCTION

The community of Bluefields is a typical small coastal settlement located in the parish of Westmoreland, southwest Jamaica.

Bluefields is a fishing community, and it is susceptible to natural hazards typical to Jamaica and the Caribbean as a whole. The impact of some of these natural hazards is damage to homes and infrastructure due to hurricanes and flooding from tropical storms and heavy rain.

The economic and marine activities are also disrupted by both natural hazards and man-made hazards depleting the marine fish stocks, a decline in fish habitats, environmental degradation, and increased pollution levels.

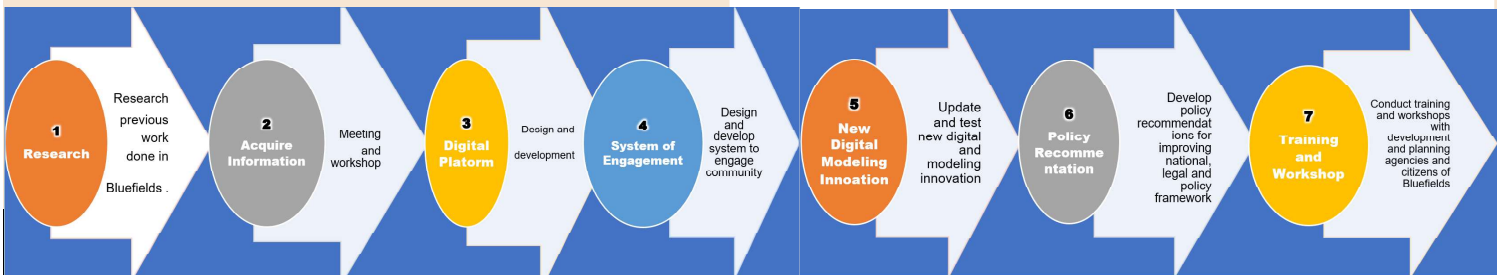
## OBJECTIVES

The development of Bluefields as a climate-smart and resilient coastal settlement requires an integrated approach utilizing the knowledge, skills, and resources of citizens, government agencies, and private institutions.

**OBJECTIVE 1:** Design and build a digital twin with modeling technology to be used by development and planning agencies, private institutions and citizens of Bluefields

**OBJECTIVE 2:** Develop community settlement risk management platform to enable, promote and validate the integration of government entities, coastal development agencies, academic, coastal communities, and community leadership stakeholders.

## METHODOLOGY



## LOCALITY:

- Bluefields, Westmoreland, Jamaica, W.I.

## TARGET GROUP

- Citizens of Bluefields Community
- Government Agencies
- Private Institutions

## BENEFICIARIES

- Citizens of Bluefields Community
- Development and Planning Agencies
- Private Institution
- Government Entities
- Academic

## EXPECTED RESULT

- Digital and regionally replicable model available to support prediction of climate and natural hazard impacts and evidence-based decision making for the planning and management of coastal settlements.
- Engagement of government entities, coastal community stakeholders and research institutes, enabled to co-develop policy recommendations for improving national legal and policy frameworks to promote innovations in planning and management of coastal settlements.
- Local applicable digital risk monitoring innovations

## FUNDING AND IMPLEMENTING ORGANIZATIONS



## GRANT RECIPIENT

Designed, lead, and implemented innovation project



Spatial Innovation Limited