COAST

"Assessment of the impact of coastal flood risk on population"

GEOGRAMA

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AGENDA

- 1. USE CASE DESCRIPTION
- 2. STAKEHOLDER
- 3. USE CASE DATASETS
- 4. EXPECTED RESULTS
- 5. QUESTIONS

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1. USE CASE DESCRIPTION (I)

Thematic field(s)	Natural Risks, Buildings, Statistics
Overall goal	Transfer statistical information on population to buildings
Concrete goal	A building dataset with additional attribute(s) related to living population that will help to determine the impact of a coastal flood event on population.

1. USE CASE DESCRIPTION (II)

Main actor	IHC –Institute of Environmental Hydraulics of the University of Cantabria (Spain)
Other actors	Metorological agencies Authorities of river basin districts Environmental agencies Firefighters / Civil Protection Administrative authorities at Regional / Local level Environmental Research Institutes Insurance companies

Scenario	Flooding preparation phase

Main data sources	INSPIRE, COPERNICUS, EUROSTAT, JRC.

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2. STAKEHOLDER (presentation)

IH cantabria
INSTITUTO DE HIDRÁULICA AMBIENTAL
UNIVERSIDAD DE CANTABRIA

JOINT RESEARCH INSTITUTE

NATIONAL AND INTERNATIONAL SCOPE: SPAIN AND SOUTH-AMERICA

RESEARCH, TECHNOLOGY TRANSFER AND TRAINING

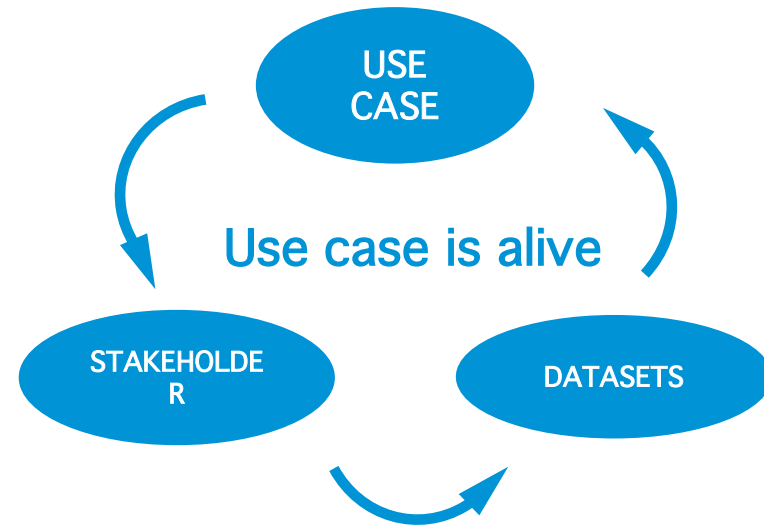| COASTAL MANAGEMENT AND ENGINEERING	
Flood management specialists	Disaster Risk Management specialists
Management Plans	Methodologies and numerical tools for the Evaluation of coastal threats and impacts

2. STAKEHOLDER (workflow)

USE CASE

Use case is alive

STAKEHOLDER

DATASETS

Iterative (several rounds)

Feedback based

Allows to discover different points of view

Opens new perspectives & paths to explore

Stakeholder's ownership

2. STAKEHOLDER (valuable inputs)

OPORTUNITIES	Multidisciplinary Discover data Massive data processing	
NEEDS	Socio-economics	Population, Human Activities, Infrastrutures, material damages, etc.
DATASETS	Temporality Scale	Upgrade levels Level of detail

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3. USE CASE DATASETS (overview)

	Theme	Dataset	Source	
P R I M A R Y	BU	BUILDINGS	INSPIRE	**G E O**
	NZ	COASTAL HAZARD	INSPIRE	
	NZ	COASTAL RISK	INSPIRE	
	SU	STATISTICAL UNITS	INSPIRE	**S T A T I S T I C S**
	PD	GHSL-POP	JRC	
	PD	GEOSTAT POP GRID	EUROSTAT	
A N C I L L A R Y	LU	CLC	COPERNICUS	
	LU	URBAN ATLAS	COPERNICUS	
	EL	DMT	INSPIRE	
	EL	LIDAR DATA	INSPIRE	

3. USE CASE DATASETS (Buildings)

- ❑ INSPIRE ANNEX III
- ❑ INSPIRE ROADMAP: SPATIAL DATASETS AVAILABLE FROM 10/2020

- ❑ ATTRIBUTES REQUIRED:
  - ▪ Condition: FUNCTIONAL
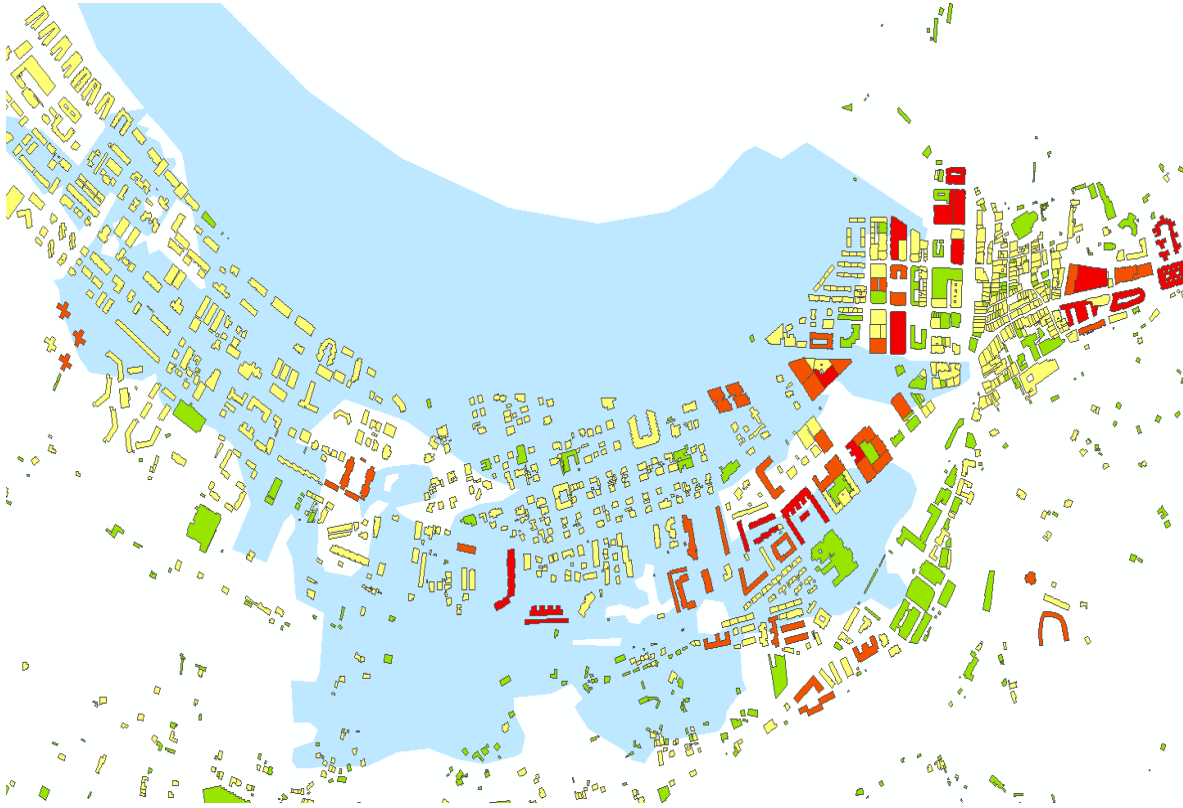 - ▪ Use: RESIDENTIAL
  - ▪ Number of dwellings

- ❑ ISSUE:
  - ▪ <voidable> attributes
  - ▪ Lack of required attributes informed

- ❑ NEED ANCILLARY DATA: LAND USE & ELEVATION (DMT/LIDAR)

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4. EXPECTED RESULTS

- ❑ A dataset of buildings with additional attributes related to the living population that will help determine the impact of a coastal flood on the population.

- ❑ Dasymmetric mapping techniques.

- ❑ Improve the representation.

- ❑ Better understanding of population phenomena on natural risks.

5. QUESTIONS

❑Do you own/manage datasets related to this use case?

❑To what extent this use case fits in the high-value datasets perspective, in terms of quality, maturity or impact?

❑Do you run such analysis in your organization?

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THANK YOU

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