

USE-CASE OVERVIEW

On-line workshop #2 29 October 2020

Geokom

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AGENDA

- 1. USE CASE OVERVIEW AND GOALS
- 2. USE CASE DATASETS
- 3. QUESTIONS

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Main domaine of 11 use-cases

- Emergency/disaster management and hazards
- Water and soil
- Transport

Expected outcome of the “Emergency/disaster management and Hazards” use cases

Future forest management

To assist adaption of forest management to climate change by supporting decision making with the help of Artificial Intelligence regarding habitat based forest design.

Buildings potentially affected by industrial explosions

To provide an evaluation of types of buildings potentially affected by an industrial explosion and determine its level of exposure.

Population affected by possible forest wildfire

Calculation of the vulnerability of the population due to the risk of occurrence of forest fires in specific areas of the participating countries and possible cooperating countries.

Population, roads and buildings affected by flood events

To provide an identification of roads and evaluation of population and buildings affected by flood events (T = 10) during emergency preparation phase.

Geospatial data and technologies in relation to COVID-19

Provide a living inventory of the outstanding projects and initiatives which are using geospatial data and technologies in relation to COVID-19 pandemic.

Expected outcome of the “Water and soil” use cases

Population affected by coastal flood risk

The result will be a building information layer with population statistics that will help determine the impact of a coastal flood event on population.

Drinking water damages and -deficiencies

To locate vulnerable catchment areas, wells, boreholes etc. potential exposed to drought and to acidification from the industry, agriculture and sea level rise.

Pollution tracing

Tracing the flow of contaminated water to define possible affected areas and to try to stop the progress of contamination.

Tracing back to identify the source of contamination.

Management of sub-surface information

The goal is to provide a methodology to conceptualize, organize and deliver subsurface information answering the needs of stakeholders involved in sustainable and safe use of natural resources from different countries.

Expected outcome of the “Transport” use cases

Population affected by noise

To provide an overview of the noise phenomenon and its direct impact on the population, unifying the different night noise units (agglomerations, airports, roads, industrial and railway lines), combining them with buildings and population affected.

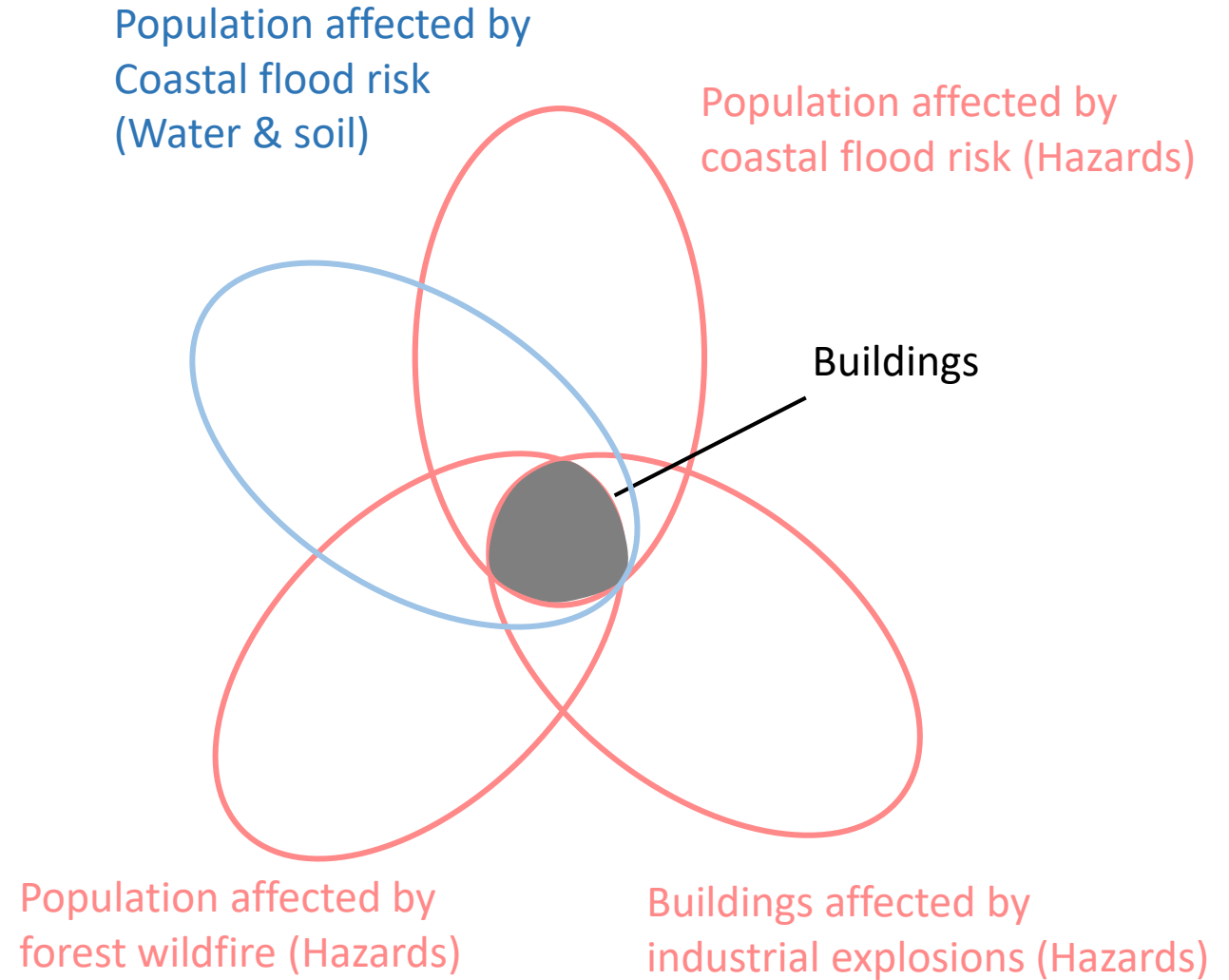
Intermodal Container Routing

To increase the efficiency in European and Worldwide transport systems. Accurate intermodal (rail, road, water) routing tool for container shipping that improves reliability of Estimated Time of Arrival (ETA) and/or reduces CO₂ and other emissions

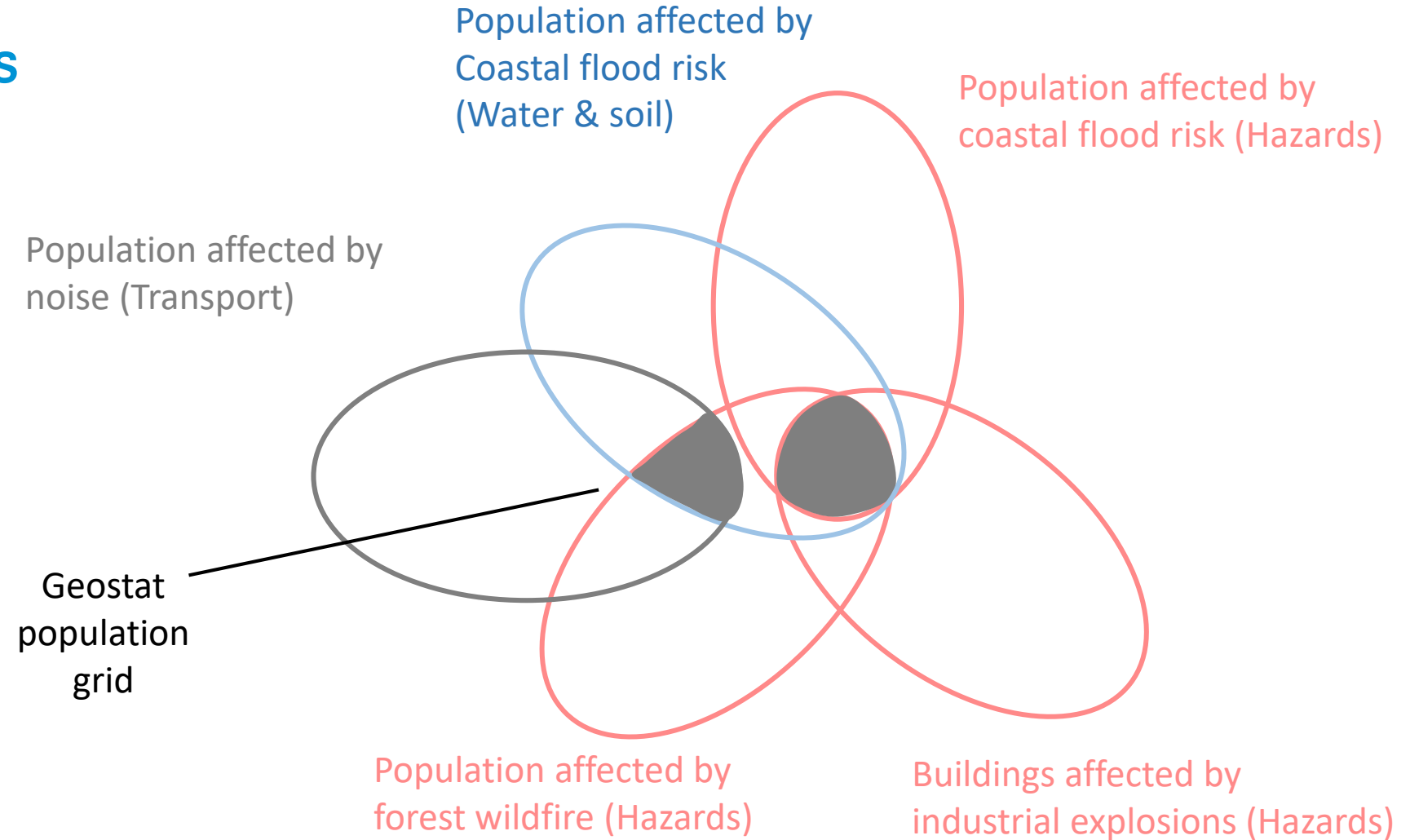
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Common datasets



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3. QUESTIONS

- Are you working with use cases related to these domains, if so which ones?
 - Emergency/disaster management and Hazards
 - Water and Soil
 - Transport

- Please describe in one sentence a use case you are involved in

THANK YOU
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