MISAR: Climate Change Risk Management by improving the Individual and Social Awareness of Risk in Sicily

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Problem Statements and Aims

Climate Change has effect on both society and the natural environment.

Networks are Fundamentally difficult to comprehend.

Innovative Multi-Sectoral approaches are required to Manage and Increase the perceptions of Individual and Social
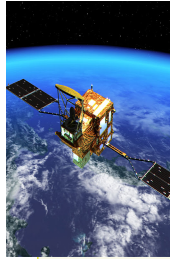
Background and Case Study Area

Italy

Sicily

Legends
- Coastline
- Municipality
- Region
- Italy

0   25   50 km
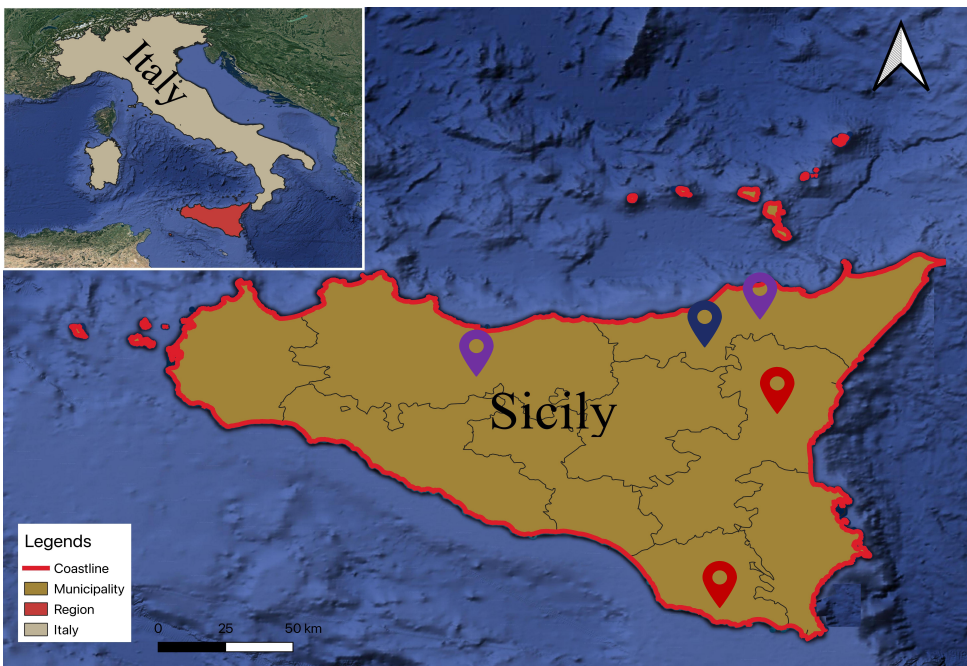
Multi-Risk Assessment on:

Sea Level Rise
Temperature Rise
Air Quality
Precipitation Events
Flooding
Heat Waves and Fire
Damages
Water Quality
Changes
Agricultural Damages
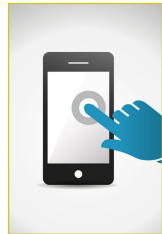Aquaculture Damages

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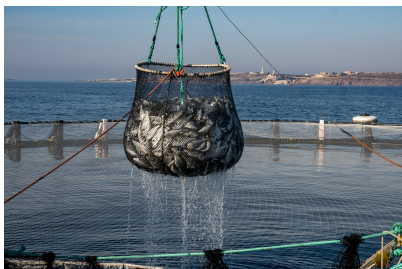
Methodology

Multi-Risk Assessment for the climate change factors

Sentiment Analysis and developing the level of learning and resilience

Positive

Negative

Creating an innovative tools, apps, games and connection through the network to the people

Changes in Shoreline, Infrastructure, Vegetation, and land use. Agricultural and Fire damages nature-based solution (NBS) will be acquired from the municipalities of Sicily.

By using the opinion of the people, Assess the behavioural changes regarding vulnerabilities, resilience, risk. European Social Survey, Eurobarometer, and International Social Survey Program
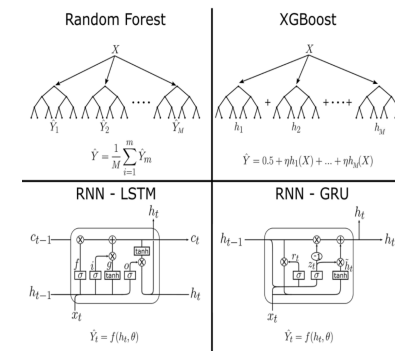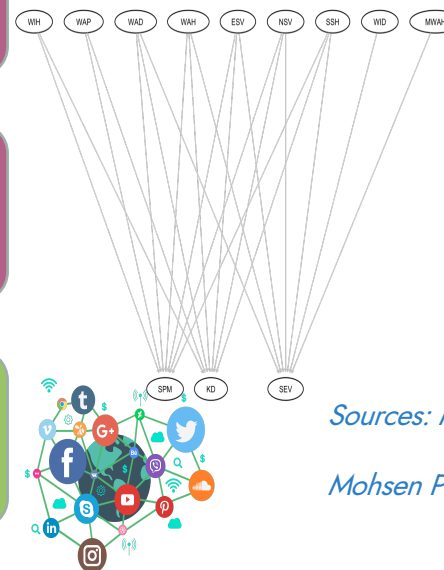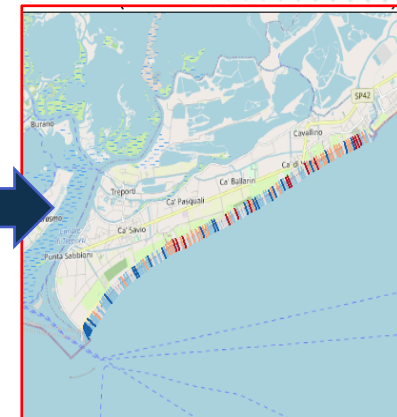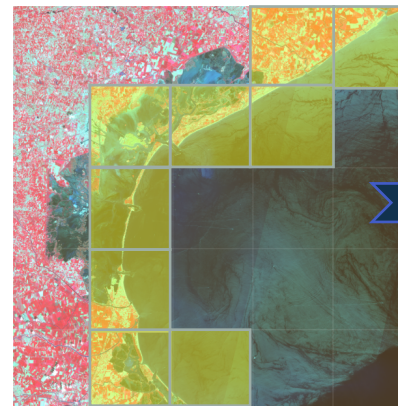
ISSP

European Social Survey

European Union

Eurobarometer

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Applications

1st Phase

Risk Awareness

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Surveys

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Sentiment Analysis

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Scenario/Hypothesis

2nd Phase

Spatial Analysis

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Multi-Risk Analysis

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Social Media/Smart Communication analysis/ NLP

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Holistic Framework
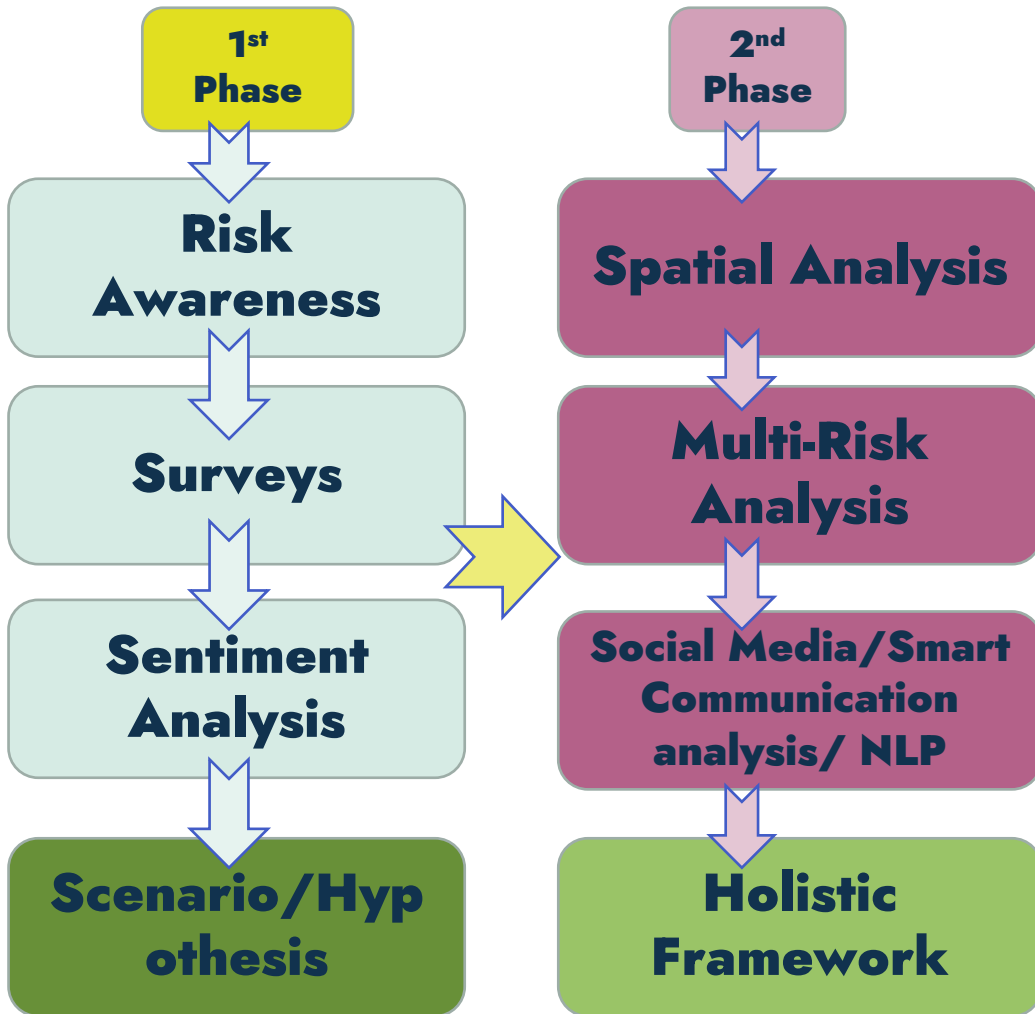
Sources: Mohsen P. Shahvar Thesis, 2021

Mohsen P.Shahvar, CORILA Project 2021

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Application and Expected Results

3rd Phase

Activation Mode

Social Interactions in Sicily

Apps/Games

Screening the results → **Risk and Disaster Management**
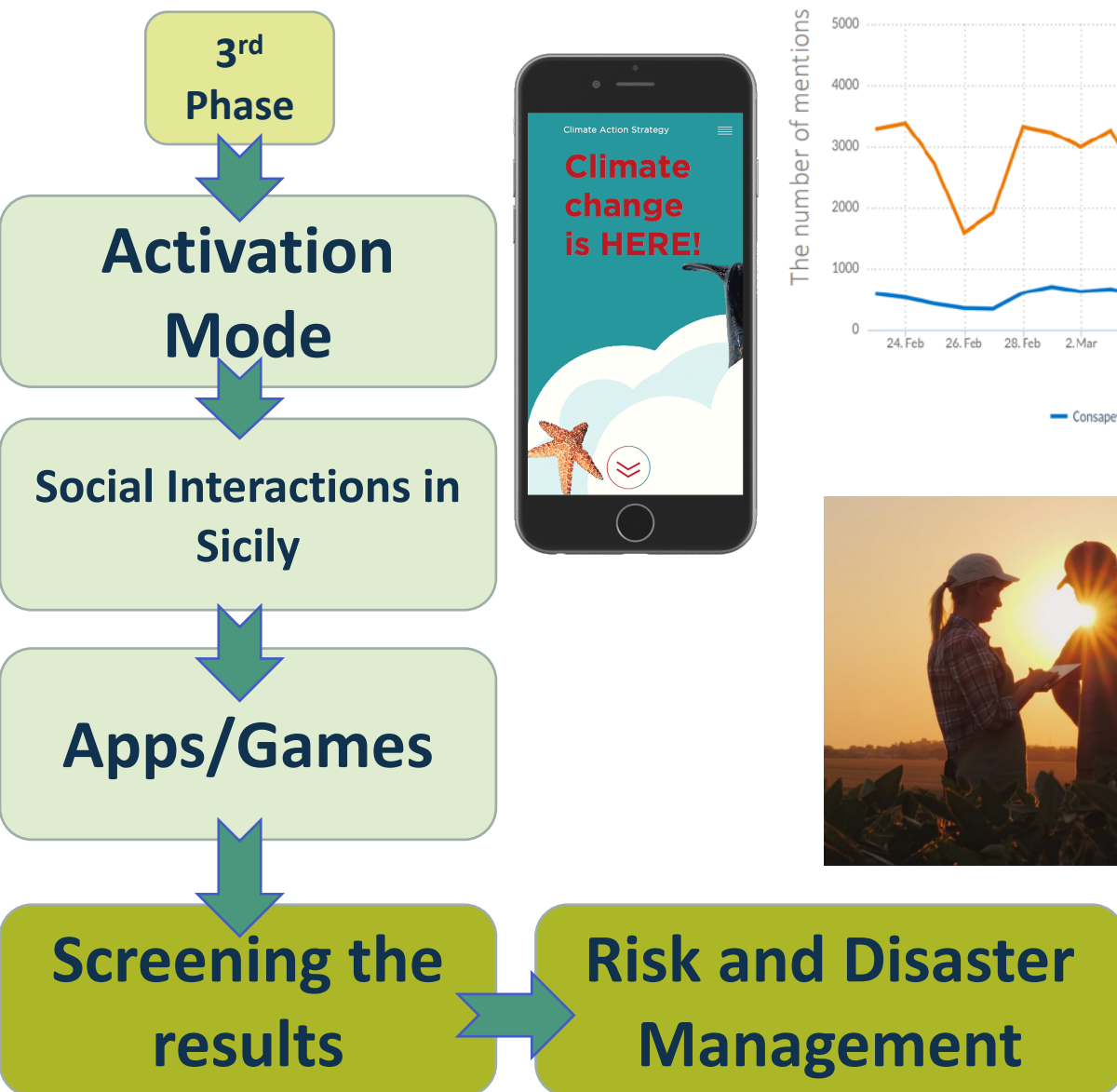
Sendai Framework for Disaster Risk Reduction - 2015 (UNISDR)

Thanks for your Attention

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