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

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
Methodology

Multi-Risk Assessment for the climate change factors

Sentiment Analysis and developing the level of learning and resilience

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
Applications

1st Phase
- Risk Awareness
- Surveys
- Sentiment Analysis
- Scenario/Hypothesis

2nd Phase
- Spatial Analysis
- Multi-Risk Analysis
- Social Media/Smart Communication analysis/ NLP
- Holistic Framework

Sources: Mohsen P. Shahvar Thesis, 2021
Mohsen P. Shahvar, CORILA Project 2021
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)

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Thanks for your Attention

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