



TOOL



Storymaps: CRISEPAC, climate change and natural hazards in Europe



Title : Climate change and natural hazards in Europe | **Developed by** : CRISEPAC

Topics : Climate change
Natural hazards | **Website** : <https://storymaps.arcgis.com/stories/a771e81b0f4341fdb8ec948a69ea7f86>

Description

This website gives information about climate change and risks. You will find :

- The impact of natural disasters on the population and the society;
- Natural disasters related to climate change;
- European countries affected by climate risks;
- EU policy for disaster risk management;
- The importance of civil protection, prevention and preparedness;
- Glossary with definitions of the essential terms;
- Case study in Portugal;
- Other examples in Greece, France and Latvia.

Duration

Not specified

Resources needed

To use the tool, we need:

- Internet;
- Projector;
- Laptop or PC.

Age

Adults

Relevance to CRISEPAC Objectives

The storymap was developed as part of the project CRISEPAC.

Expected outcomes

- Understand natural risks related to climate change;
- Read a map about natural risks in Europe;
- Know disaster risk management, prevention, preparedness and mitigation;
- Discuss the importance of European Cooperation for Disaster risk management.

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Management

The storymap is a support that teachers and education professionals can use to supplement their understanding and illustrate classroom activities.

Risk prevention

A focus is made about:

- Disaster risk;
- Disaster management,
- Prevention and mitigation.

Others

Weaknesses

- Lots of reading;
- Content that requires a certain level.

Strengths

- Information about natural risks related to climate change;
- Reachable;
- Concrete examples;
- Interactive maps.

Possible adaptations

This tool can be used at different levels and guides information about natural risks.

Depending on the level of the student, some figure can be extracted, and the student divided by groups can work on it.


Climate change

Natural hazards will be much more intense and more common because of climate change.

Methodologies

All the figures and content presented in the storymap can be used to illustrate your teaching materials for classroom activities or to accompany lessons on natural risks:

- **Figure 1:** This graphic describes the number of deaths from natural disasters in Europe since 1900, gathered every 10 years. The disasters include all geophysical, meteorological and climate events.
- **Figure 2:** These figures indicate the economic damages caused by weather and climate-related extreme events in EEA member countries between 1980 and 2020. The information explains that natural disasters affect more people's lives than economic losses. The data used in those figures come from databases : NatCatSERVICE and CATDAT.
- **Figure 3:** Mapping of climate risk typology is an interactive map that can be used to extract a range of information. Teacher could choose classes, subclasses or indicators and then select specific hazards or areas to see more details.
"Classes" = areas in Europe with different climate risks

 = information about hazard, exposure, sensitivity and adaptive capacity per climate that show each climate and its risks.

The "Subclasses" allow us to be more precise about the different ranges of climate.

"Indicators" indicate:

- Hazards with projected changes : wildfire, coastal risks, floods, drought and landslide.
- Region where population, roads, rail, transport, airport, power plant, port or hospital are exposed to coastal hazard, fluvial floods or landslides.
- The sensitivity of each region.
- The capacity adaptation of each region.

Do not hesitate to click on the question mark to have more explanation and details about each criteria.

- **Figure 4 :** Vulnerability from the heatwaves, droughts and floods in 571 European cities from low to high (referenced by colors) included which countries concerned and the level of risks.

The glossary includes definitions of all the terms used in the story map, accompanied by relevant images that explain the differences between these terms.

The case study in Portugal reports the type of natural disasters there are in this country and the impact on the population. Many data are interesting to analyze.

It is a way to better understand how natural disasters can impact the environment, society and lives. Additionally, the other 3 cases study give some information about relevant to climate change in different European regions.

It could also use this story map as an example to create their own based on local data.

(<https://learn.arcgis.com/en/projects/share-the-story-of-an-expedition/> here is a tutorial how to build a story map with print screen)

More informations : CRISEPAC Project - <https://www.crisepac.eu/>