



## M1 - A DATABASE OF PAST DHF EVENT IMPACTS (Executive Summary)



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## **Database description**

A database of past drought, heatwave and fire weather events (hereafter DHF events) and their impacts is an output of activity A1.1 (Compiling relevant datasets and collecting data on impacts and cross-border extreme events). The final database involves more than 3000 records of DHF events in the Clim4Cast region spanning the 2000-2023 period. All records come from printed and online newspaper reports, which were manually collected by all project partners during 2023. Despite a number of available online news, newspapers are still one of the most important sources of information about DHF events and their impacts in the 21st century. Project partners wrote down all reports in the prepared MS Excel template. Subsequently, the filled MS Excel templates covering collected impacts of individual countries were processed by MUNI, a lead partner of Activity A1.1, and merged into one unified database.

The final database was compiled in MS Excel, which was agreed to be the most suitable format for subsequent utilization by all partners during an in-person project partner meeting. Each DHF event has its own ID, which includes, in most cases, several impacts. All DHF events and their impacts are categorized according to date (date begin and date end), place of occurrence (country, NUTS 3 and in some cases also NUTS 2 and geographical unit), type of DHF event (drought, heat wave, fire weather) or affected river or water body. All DHF impacts were divided into 15 impact categories according to the affected system (soil, agriculture, forestry, etc.). Each impact category was subsequently divided into several impact subcategories (e.g. low soil water content, changes in soil chemical and structural properties). If some victims or injured people were reported, their numbers were stated in the database as well.

The database also includes information about societal responses - societal reactions to the DHF impacts (e.g. water supply restrictions, prohibition of the entrance into the forest, adjustment of working hours). In accordance with the project proposal, cross-border DHF events and their effects were identified. A cross-border DHF event was considered to be an event that occurred in at least two neighbouring countries at the same time. Both countries that were affected by the same DHF event and the particular IDs of joint DHF events are presented. Finally, a short description of DHF events in English was included, as well as the type of report source and its quotation.

The database of past DHF events and their impacts represents one of the key outputs of the Clim4Cast project. The collected impacts represent how DHF events demonstrate themselves in the landscape and influence the regions' ecosystems, peoples' well-being and livelihoods. Collected data also present the elemental data source for the following analyses within Activities 1.2-1.4 and will be utilized during the whole project implementation by WP2 and WP3.