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LOCALIENCE

EXTREME WEATHER RESILIENCE CENTRE **(„EXTHERENCE - The Living Lab”)**

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- Creation of an experimental and collaborative platform focused on extreme weather events, especially natural disasters
- Participants: In Vas county, disaster management, county government, researchers, local communities, civil organizations, citizens
- Development of an action plan that determines the optimal response steps in the event of a possible natural disaster
- Planning: available resources, environmental characteristics and recent research findings
- Experimentation: testing practical experiments and solutions and obtaining real-time experience, immediate feedback on the effectiveness and applicability of the selected solutions
- Knowledge sharing and application: sharing of available knowledge and experience among participants and with other regions and initiatives facing similar challenges

- Development of transnational disaster prevention, civil protection, fire protection, and industrial accident prevention activities with particular regard to extreme weather
- Investigate the effects of extreme weather phenomena using new methods, and risk analysis
- Develop new coping methods to respond effectively
- Exchange of experience and knowledge
- Joint research and development opportunities, publication of results
- Finding suitable answers to the challenges of extreme weather events
- Minimizing the consequences of the "domino effect".
- Increasing the disaster resilience of the population, official bodies, municipalities and civil organizations involved in damage control

Planned platform

- Ministry of Interior (decision makers)
- MI National Directorate General for Disaster Management (experts)
- Scientific Council for Disaster Management (researchers)
- Office of the Vas County Local Government (community, decision makers)
- University of Public Service (researchers, community)
- Eötvös Loránd University Savaria University Center (researchers, community)
- Directorate of Protection and Rescue of the Republic of Slovenia, Muraszombat Protection and Rescue Office (experts)
- Burgenland Provincial Fire Brigade (volunteers)
- Civilian organisations (volunteers, citizens, society)

Vas county is located on the western edge of Transdanubia, bordering Austria in the west, Slovenia in the southwest, Zala in the south, Veszprém in the east and Győr-Moson-Sopron county in the north. Its area is 3,336 km². The population is 268,013 people and the population density is 80 people / km². It typically consists of small villages. It has twelve cities and 204 smaller settlements. According to the topographic and climatic conditions, the water network of the county is extremely dense, significantly larger than the national average.

- Flood
- Flash flood - local water damage
- Extreme weather conditions,
- Earthquake
- Hazards associated with hazardous materials
- Critical infrastructure

Structure of the pilot

Control:

- Work groups, as Thematic Focus Groups; Local Action Groups
- They are managed by the partner Management Group as a Project Group
- Its members are the area manager responsible for implementing the PILOT and the experts invited by him or her
- The Steering Group determines the main directions leading to the achievement of the goal

Work groups:

- Water Damage work-group (Thematic Focus Group)
- Industrial Safety work-group (Thematic Focus Group)
- Fire Protection work-group (Thematic Focus Group)
- Civil Protection work-group (Thematic Focus Group)
- Logistics and Legal Support work-group

Operating conditions of the pilot

- On the Logistics and IT base of the Vas County Disaster Management Directorate
- The involved experts are at their own place of operation
- The meetings will take place virtually and physically, every two months during the project
- The location of the field work required is provided by the Vas County Disaster Management Directorate
- Table top and field exercises can be performed in Vas County
- Each organization involved will carry out its project-related tasks in accordance with its own rules of procedure
- Researchers and assistants involved in the research can devote at least the minimum number of working hours required for the project



Main tasks performed by working groups 1.

Water Damage work-group

- Mapping the damage specifications of surface and underground waters resulting from extreme weather conditions
- Mapping the topographic, hydrological and meteorological causes of excess waters and local water damage
- Assessing the vulnerability of the catchment areas of the Rába River, the Pinka, the Sorok-Perint and the Gyöngyös streams
- Analysis of risks and development of risk management responses (GIS, analytics, fieldwork, surveying)
- Modelling and early warning monitoring system planning
- Development of recommendations for partner countries

Main tasks performed by working groups 2.

Industrial Safety work-group

- Exploration of cross-border disturbances and injuries of the infrastructures affecting the population
- Mapping of supply problems in these cases
- Research on the effects of extreme weather in the case of economic units that produce, process, use and store hazardous substances
- Analysis of risks, development of appropriate risk management responses (GIS, testing of system control elements, fieldwork)
- Local action group for model training, which focuses on reducing the domino effects of systems on each other
- Development of recommendations for partner countries

Main tasks performed by working groups 3.

Fire Protection work-group

- Assessment of the state of regional rescue services and fire protection
- Examining the effects of extreme weather in fire protection
- Local action group to create joint intervention guidelines
- Development of a common risk management methodology for the management of damages caused by extreme weather
- Creating a model for the supervision of fire protection in the area (by installing a monitoring camera system, using UAVs, mapping the area and developing an interdisciplinary interface)
- Development of further training methods for people who can be involved in the field of fire fighting and technical rescue to deal with extreme weather damage events
- Development of recommendations for partner countries

Main tasks performed by working groups 4.

Civil protection work-group

- Analysis of the extreme weather vulnerability of the area, and of the identified risks
- A Local Action Group prepares and informs the public about the dangers of extreme weather; producing a multilingual publication on the risks to the public, with treatment responses and defining key rules of conduct
- Surveying the currently available tools and research of development opportunities
- In Vas County settlements is the preparation of administrative leaders, mayors and organizations that can be involved in damage prevention (training methodology, and forms)
- Development of voluntary social involvement, strengthening the resilience of the population, local government, public administration and citizens
- Developing recommendations for decision-making organizations in partner countries

Schedule - plenary and group actions

February 2024

Organization of a meeting for participants (in the form of online meeting), definition of tasks, development of strategy.

Field survey, assessment of initial data, development of research methodology, start of research.

April 2024

Organization of a meeting for participants, definition of tasks.

Until April 30, 2024

Accepting strategies, setting goals.

May 2024

Organization of a meeting for participants, definition of tasks.

Schedule - plenary and group actions

May 2024

Organization of a meeting for participants, definition of tasks.

June 2024

1. Table top exercise

July 2024

Organization of a meeting for participants, definition of tasks

Septembre 2024

Organization of a meeting for participants, definition of tasks

1. Field exercise

Octobre-Novembre 2024

1. Workshop, presentation of achieved partial results

Schedule - plenary and group actions

Octobre-Novembre 2024

1. Workshop, presentation of achieved partial results

January 2025

Organization of a meeting for participants, definition of tasks

March 2025

Continuation of research, risk analysis, publication of partial results

May 2025

2. Table top exercise, development of the training of intervention forces

June 2025

Organization of a meeting for participants, definition of tasks

Schedule - plenary and group actions

August 2025

2. Workshop, presentation of achieved partial results

August 2025

Organization of a meeting for participants, definition of tasks

Septembre 2025

2. field exercise

Octobre 2025

Organization of a meeting for participants, definition of tasks

January-March 2026

Publication of the final results of the project, organization of the final conference

- Communication related to the project can only be done with the permission of the host institution or partner institutions
- Participants are entitled to publish research materials individually or jointly
- Launching an independent, multilingual website or social media interface, with an open interface for information tasks and an authenticated interface for communication between participating institutions
- The workshops, conferences and exercises are communicated in Hungary through the spokesmen of the National Directorate General for Disaster Management and the Vas County Disaster Management Directorate. The communication of the above is carried out by the foreign cooperating partners independently after informing the Hungarian side.
- Coordination of communication activities, prioritizing online media as well as live interviews



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