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Reinforcing civil protection capabilities into multi-hazard risk assessment under climate change (RECIPE)

DG ECHO 2019 Call for projects on prevention and preparedness in civil protection and marine pollution

Prevention Projects. Specific objective 1. Internal Budget item

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Universidade de Lisboa



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Project title: Reinforcing civil protection capabilities into multi-hazard risk assessment under climate change (RECIPE)

Total project eligible cost: 703,108.77€

Total EU contribution: 597,642.46€ (85%)

Duration: 23 months (January 2020-November 2021)

<http://recipe.ctfc.cat>

CONSORTIUM:

- ▶ (CO) Forest Science and Technology Centre of Catalonia – CTFC, Spain
- ▶ (BE1) Pau Costa Foundation - PCF, Spain
- ▶ (BE2) Civil Protection General Directorate of Catalonia – DGPC-CAT, Spain
- ▶ (BE3) Forest Research Institute Baden-Württemberg - FVA, Germany
- ▶ (BE4) CIMA Research Foundation – CIMA, Italy
- ▶ (BE5) Austrian Research Centre for Forest Natural Hazards and Landscape – BFW, Austria
- ▶ (BE6) Institute of Cartography and Geology of Catalonia – ICGC, Spain
- ▶ (BE7) Instituto Superior Agronomia – ISA, Portugal

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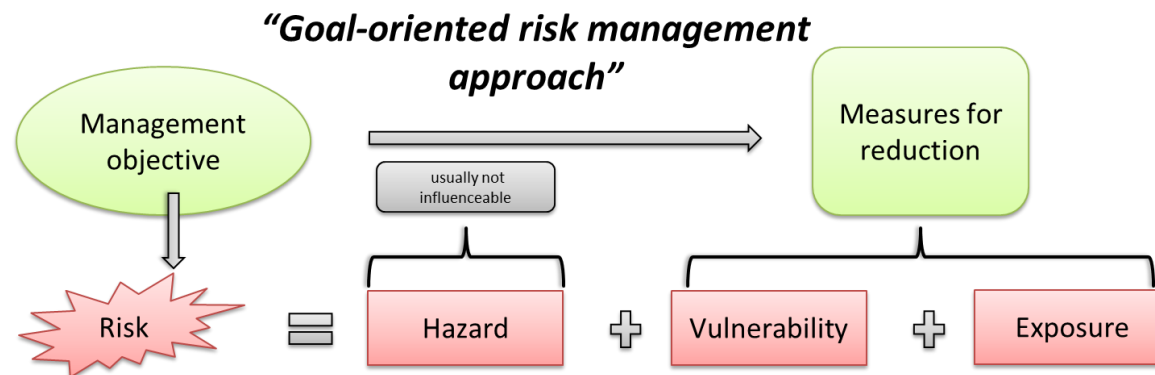
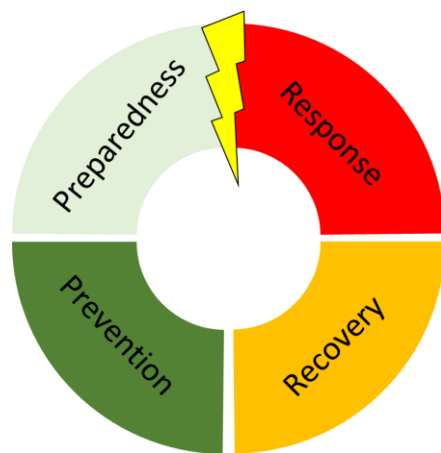


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CONTEXT

- ▶ Under **climate change scenarios**, disaster risk management is getting more complex, as the **potential impacts** of natural hazards on citizens and infrastructures increase, meanwhile decision-making processes have to deal with higher levels of **uncertainty**. Consequently, risk management agencies have to deal with unknown or more severe events. The proper inclusion of emergency response requirements into risk assessment and planning contributes to reinforce Disaster Risk Reduction Strategies.

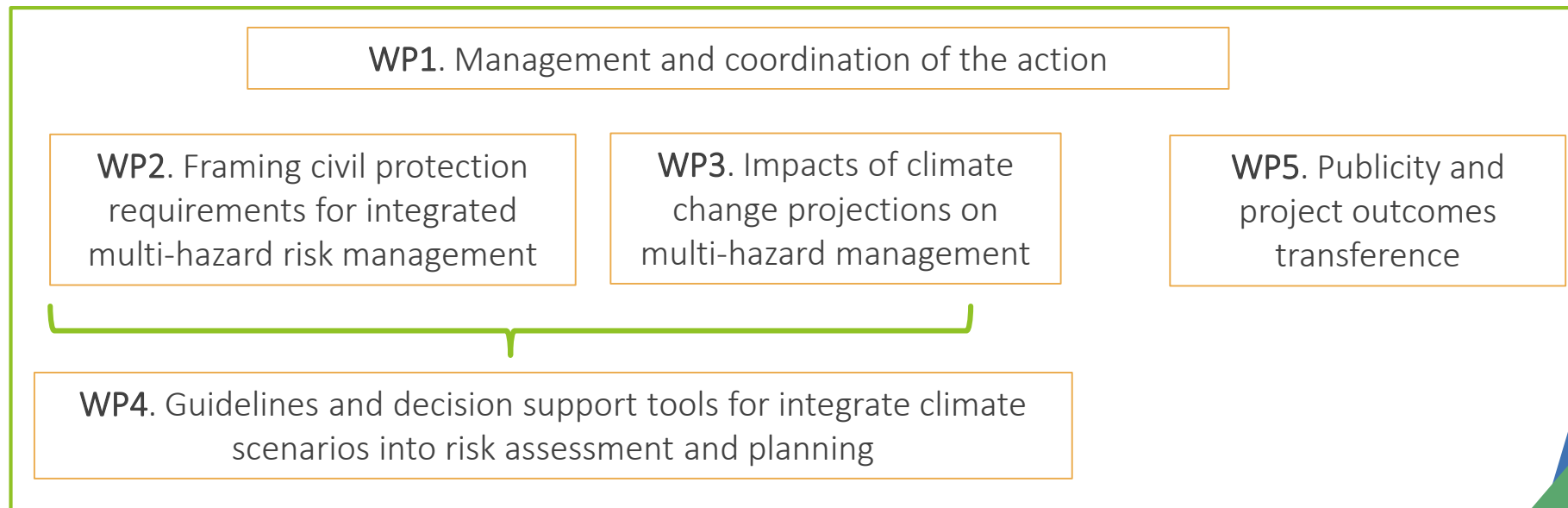


net risk work



OBJECTIVE & WORK PLAN

- ▶ The project seeks to develop **operational recommendations** and **tools** to reinforce civil protection in emergency management and risk planning for **different natural hazards** (wildfires, floods, storms, avalanches, rock-falls and landslides) across Europe while simultaneously addressing climate change impacts through an **integrated risk management approach** and exchange of lessons learned and best practice sharing.





MAIN RESULTS AND OUTPUTS

- ▶ Edition of **transferable guidelines** to incorporate the projected multi-hazard risk impacts of climate change into operational decision support systems that are used for risk management.
- ▶ Specific tools developed at a **pilot site** level to reinforce civil protection capabilities with the participation of public agencies towards end-user oriented focus.
- ▶ Active **dissemination** of project results into civil protection systems.
- ▶ Promotion of **knowledge exchange** in existing networks (e.g. the European Forest Risk Facility initiative) to reinforce European landscapes' resilience to natural hazards.



CP PILOT SITE OPERATIONAL TOOLS

- ▶ **Guidelines** for flood and fire civil protection planning with participatory approach with an operational tool for collecting citizens monitoring observations in emergency situations - CIMA
- ▶ **Decision-support tool** and accompanying handbook for dynamic risk planning procedures for rock-falls and landslides - BFW
- ▶ **Guidelines** for a participatory crisis management plan to manage wind throw along roads - FVA
- ▶ **Visualizer tool** for managing emergency situation in case of high avalanche risk - ICGC
- ▶ **Support tool** and **guidelines** for integrated risk assessment and planning for landscape and wild-land urban interface fires – CTFC, ISA, PCF
- ▶ **Protocol** for wildfire and avalanche risk management in mountain areas – CTFC, ICGC, BFW



MAJOR EVENTS

- ▶ **1st technical workshop: Methodological frame for multi-hazard risk assessment and planning.** February 19th-21th 2020 (Barcelona, Spain)
- ▶ **2nd technical workshop: Partnership and end-users workshop.** September 2020 (Freiburg, Germany)
- ▶ **3rd technical workshop: Guidelines for incorporating projected climate change impacts into DSS and platforms.** June 2021 (Lisbon, Portugal)



FOLLOW-UP

- ▶ Active dissemination of project results into end-user's sphere of activities.
- ▶ Consistent long-term use and impact of project achievements through existing forest risk networks (e.g. Risk Platform www.riskplatform.org).
- ▶ Seeking for new financial opportunities and proposals through the partnership and networking collaboration.
- ▶ Identifying new challenges and demands for civil protection to face unprecedented risk situations under climate change context across EU territories (e.g., updated risk assessment and planning protocols for wildfires and avalanche risk interaction in Alpine areas).
- ▶ Potential replication of prototypes and tools developed along the project in other EU territories facing the same challenges posed by the climate change.



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Thanks for your attention

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