



**RECIFE**

Webinar Climate Change Impacts in Natural Risk Management and Civil Protection: An operational perspective on new challenges  
November 11th 2020

## Project description and approach



Funded by  
European Union  
Humanitarian Aid  
and Civil Protection

# Reinforcing civil protection capabilities into multi-hazard risk assessment under climate change

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

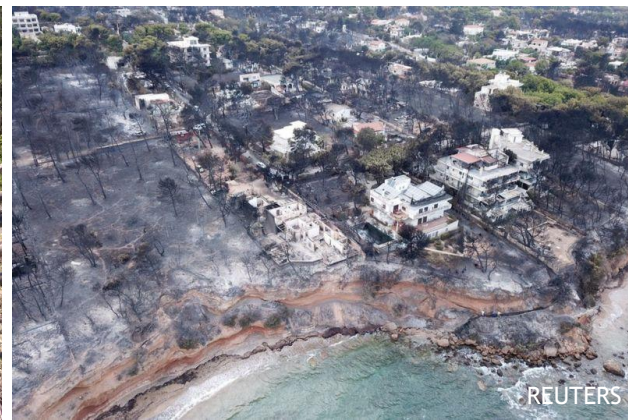
Prevention Projects. Specific objective 1. Internal Budget item



## 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 must deal with higher levels of **uncertainty** related to unknown or more severe events.

The proper **inclusion of emergency response operational requirements into risk assessment and planning** (i.e., from response to prevention stages) shall contribute to reinforce Disaster Risk Reduction Strategies.



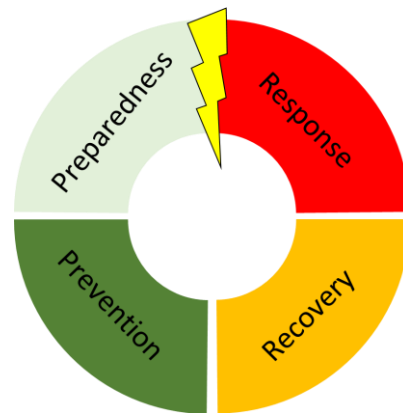
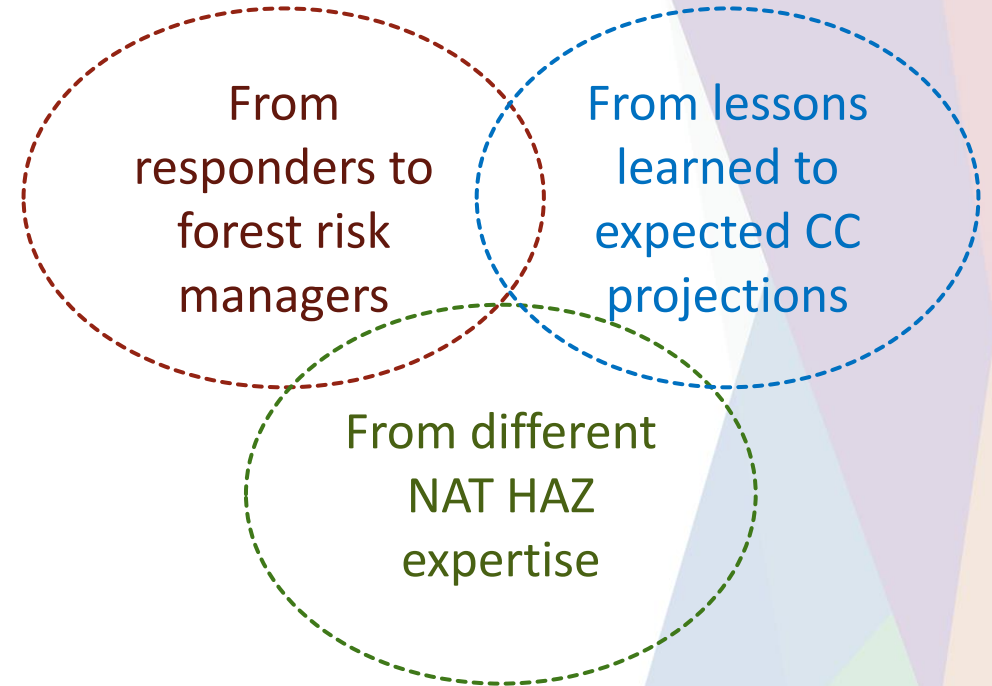
## Objective and approach

The project seeks to develop **operational recommendations & tools to reinforce civil protection** in emergency management and risk planning for **different natural hazards across Europe** simultaneously:

- ✓ Addressing climate change impacts
- ✓ Framing an **integrated risk management approach**
- ✓ **Promoting** exchange of lessons learned and best practice.



Connect - Exchange



Storms



Avalanches



Floods



Rockfalls &  
Landslides



Wildfires



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



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# A multi-hazard consortium



Forest Research Institute Baden-Württemberg



Austrian Research Centre for Forest Natural Hazards and Landscape



Instituto Superior Agronomia



CIMA Research Foundation



Forest Science and Technology Centre of Catalonia (Coord.)



Institute of Cartography and Geology of Catalonia



Pau Costa Foundation



Civil Protection General Directorate of Catalonia



## Workplan

2020

Sequential analysis on:

**Step 1: Risk factors (“HEV” method)**

**Step 2: Civil Protection and Emergency needs**

**Step 3: Expected impacts of Climate Change**

**Step 4: Re-evaluation of RF (1) and CP&E (2) according CC (3) impacts at single and multi-risk situations**

Wildfires - Avalanches

Storms - Wildfires

Wildfires - Rockfalls & Landslides

Wildfires - Floods

2021

Gap analysis on DSS operability

CP Operational tools development

Book of Guidelines and dissemination

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Step 3: Expected impacts of Climate Change

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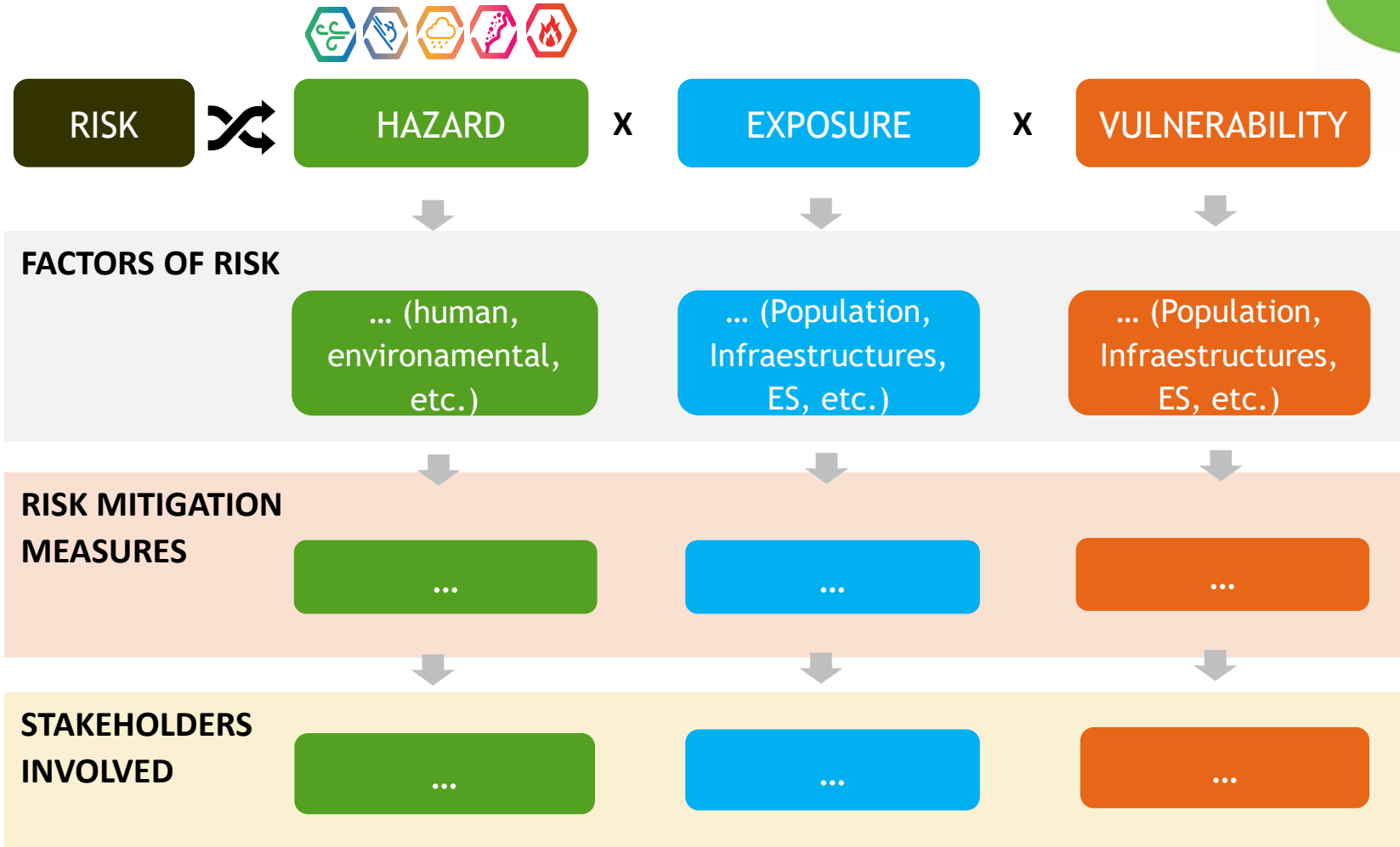
- Guidelines for flood and fire civil protection planning with participatory approach & Operational tool for collecting citizens monitoring observations in emergency situations.
- Decision-support tool for dynamic risk planning procedures for rockfalls and landslides.
- Guidelines for a participatory crisis management plan to manage wind throw along roads.
- Visualizer tool for managing emergency situation in case of high avalanche risk.
- Operational guidelines for integrated wildfire risk assessment and planning..
- Protocol for wildfire and avalanche risk assessment.

Gap analysis on DSS operability

CP Operational tools development

Book of Guidelines and dissemination

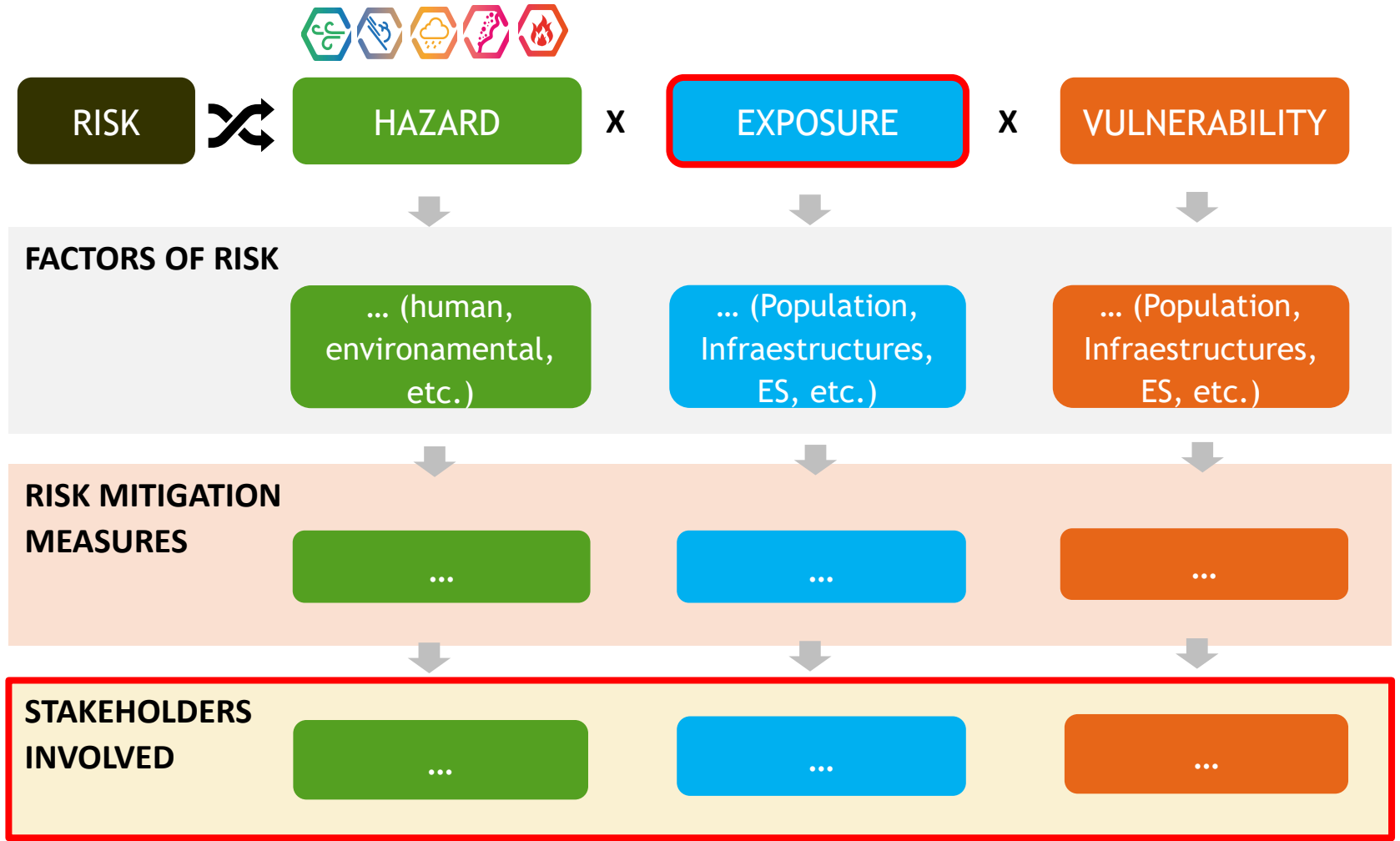
# Developing a HEV\_ Structured risk analysis



**Risk Management Cycle**  
(Prev-Prep-Resp-Rec)

**RM Cross-sectoral components**  
(Risk assessment, governance, Risk communication, etc.)

# Developing a HEV\_ Structured risk analysis



- ✓ A comprehensive risk analysis is achieved
- ✓ The matrix permits to select the information according each components

**Risk Management Cycle**  
(Prev-Prep-Resp-Rec)

**RM Cross-sectoral components**  
(Risk assessment, governance, Risk communication, etc.)





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# RECIPE

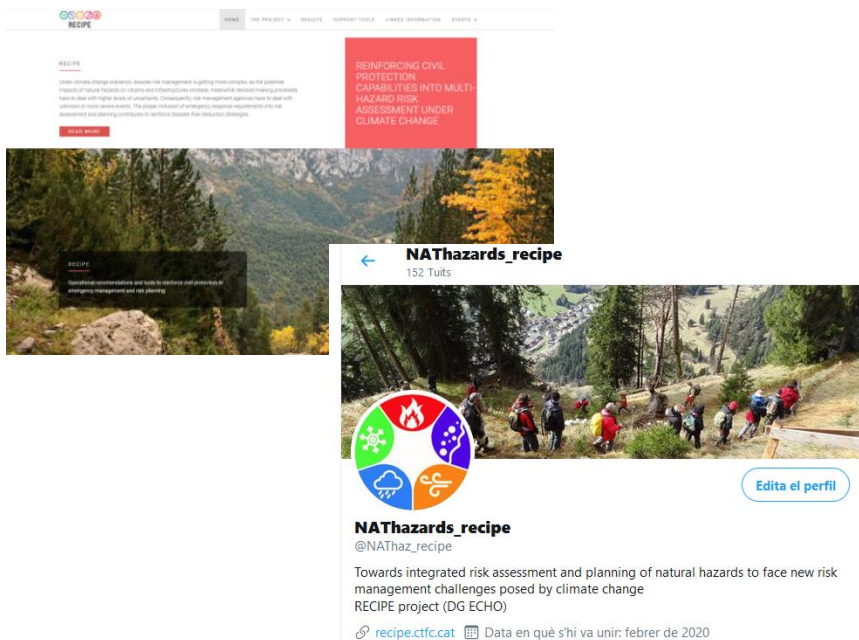
REINFORCING CIVIL PROTECTION  
CAPABILITIES INTO MULTI-HAZARD  
RISK ASSESSMENT UNDER  
CLIMATE CHANGE

<https://recipe.ctfc.cat/>

@NATHaz\_recipe 

[recipe@ctfc.cat](mailto:recipe@ctfc.cat)

Thanks for your attention



The screenshot shows the RECIPE website header with navigation links: HOME, THE PROJECT, RESULTS, SUPPORT TOOLS, JOINED ORGANISATION, EVENTS. Below is a red banner with the text: "REINFORCING CIVIL PROTECTION CAPABILITIES INTO MULTI-HAZARD RISK ASSESSMENT UNDER CLIMATE CHANGE". A "READ MORE" button is visible. Below the banner is a landscape photo of a forest. The Twitter profile for @NATHaz\_recipe is shown below, featuring a profile picture with the RECIPE logo, a bio: "Towards integrated risk assessment and planning of natural hazards to face new risk management challenges posed by climate change RECIPE project (DG ECHO)", and a link to recipe.ctfc.cat. The profile was created in February 2020.

