

Increasing self-protection in camping sites located in flood prone areas

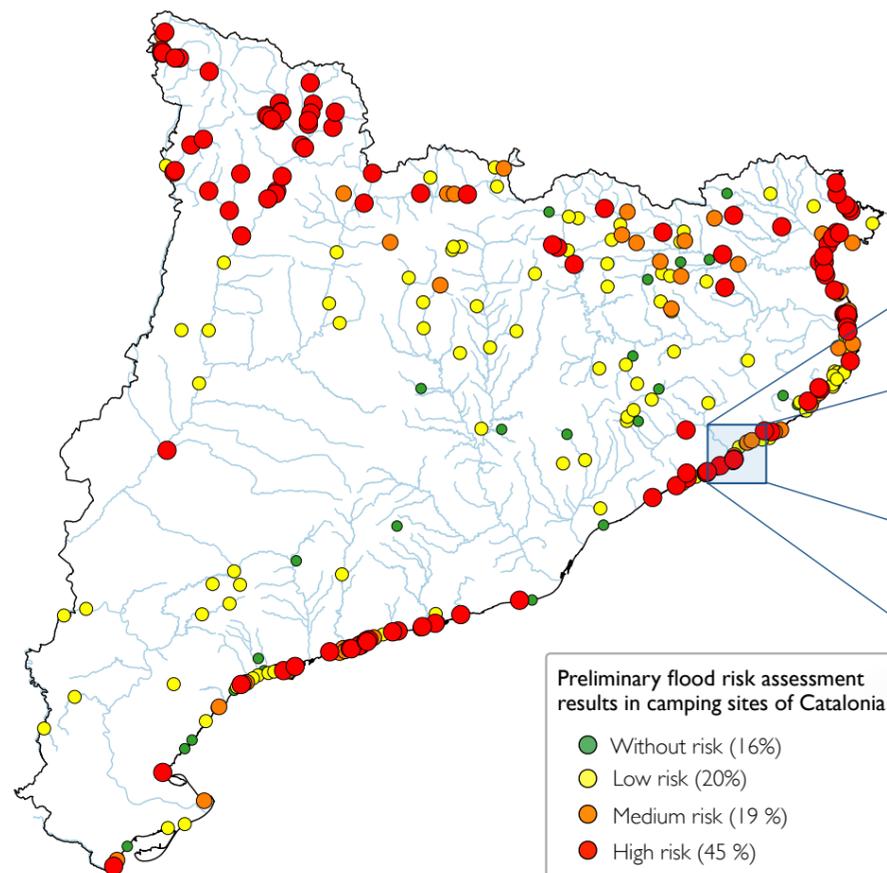
David Sancho, Alvaro Rodríguez, Xavi Llord, Rafael Sánchez-Diezma
Hydrometeorological Innovate Solutions S.L. (Barcelona, Spain)
For further information please contact us at david.sancho@hyds.es

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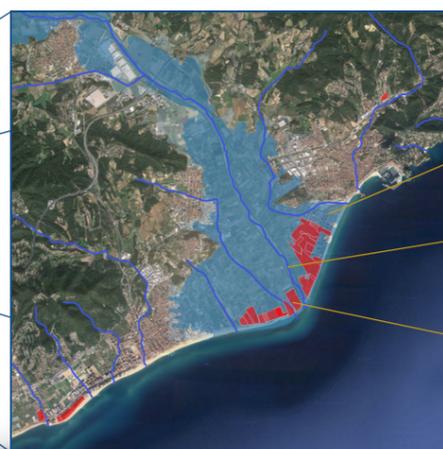


The problem

Within the ANYWHERE project (EU-H2020) a flood self-protection service for camping areas will be built using the products and services provided by the Multi-Hazard Early Warning System [MH-EWS]. It will be developed in close collaboration with INTC, ACA and DGPCE while keeping a sustained interaction with the camping sites to take their needs and feedback into account.



There are **356 camping sites** in **Catalonia** with capacity for more than **273.000 people**
Almost **half of them** are in **high risk of flooding**



10 years return period flood area

River main stream

14 camping sites (with capacity for 14.886 people)

For example, this area contains several camping sites that might be at risk. But there are many more!

According to Directive 2007/60/EC of the European Parliament and of the Council on the assessment and management of flood risks (23 October 2007), those areas identified for which significant flood risks exist or might be considered likely to occur shall implement flood risk management plans.

Camping sites are typically located in flood prone areas. Therefore, they should have flood self-protection plans which in many cases might involve flood Early Warning Systems. The flood EWS will be useful to trigger the appropriate actions from the plan in the case that a potential hazard is foreseen.

In this context we propose a flood EWS focused on camping sites that benefits from the outcomes of the ANYWHERE project (MH-EWS from WP3 and flooding products integrated within).

The proposal



Flood warning products



Service that makes use of the information provided by the MH-EWS

For camping site managers

Tailored web-based service for each camping site with flood and other hazards data visualization and different warning dissemination channels in order to issue and spread the information in advance.

Local warnings visualization
Data visualization
Camping site specific self-protection plan



- Local warnings dissemination through E-Mail, SMS, social networks (WPI and T5.2), etc.
- Explicit actions to be taken according to the self-protection plan.

For campers

Simplified mobile app able to receive information from the service in real time. The users will temporarily subscribe to the specific camping site in their check-in using a QR code scan (specific for each location), and will receive the warnings and related information directly to their smartphones.



Local warnings and actions to be taken will be received through push notifications to every client subscribed to the service of the specific camping site.

Meteorological and other interesting and highly localized information will also be offered in the app as an added value to foster user engagement.

How will it work?

- The camping site will contract the service to the provider
- A tailored site-specific web-based service will be provided to the camping site.

Amongst other features, the service will be able to generate a printable sticker/small poster with the QR codes that will be unique for the camping site.



- The campers will download the mobile app and temporarily subscribe to the service using the QR code.

The clients of the camping site will enjoy the benefits of the service during their stay, being aware of eventual upcoming floods/hazards before they occur.



Acknowledgments:

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