International Flood platform based on Free and Open Source Software created

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Project Acronym	STREAM
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Project Title	Strategic Development of Flood Management
Priority Axis	2 – Safety and Resilience
Specific objective	2.2 – Increase the safety of the Programme area from natural and man-made disaster
Work Package	Number 3
Work Package Title	Creating flood knowledge documents
Activity Number	3.4.
Activity Title	International flood platform
Partner in Charge	PP3 – University of Zadar
Partners involved	All Partners
Status	Final
Distribution	Public

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Introduction

As per the application form, the International Flood platform based on free and Open Source Software will be used in the international area for a variety of applications, including early warning systems, monitoring during the emergency, dam management, and assessing the effects of water regulation measures, land use change and climate change. It will secure an innovative information system for enhanced support to flood risk emergencies in urban and nearby coastal areas, targeting multiple users with distinct access privileges. The same GIS platform will include results in terms of flood risk maps for easy comparison of the two different scales (macro and micro level). Additional functionalities of the platform will be discussed with selected stakeholders to implement a platform following their needs. All these functions will guarantee the definition of an efficient platform supporting different typologies of users.

## International Flood platform based on free and Open Source Software

The website/platform is free and available at the following link: https://iws.gisdev.io/.

The website contains 6 useful sections that contain relevant information and flood risk maps. These sections are: *Geoportal, Sea Storm Atlas, Measurements, Forecasts, Open Sea Storms,* and *Flood Maps.*
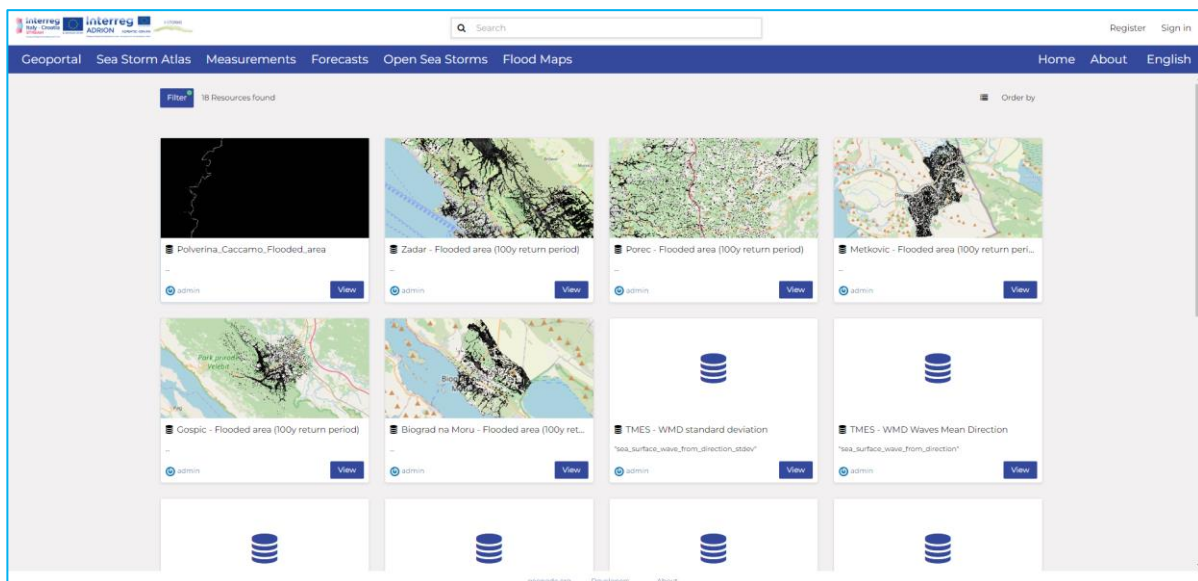
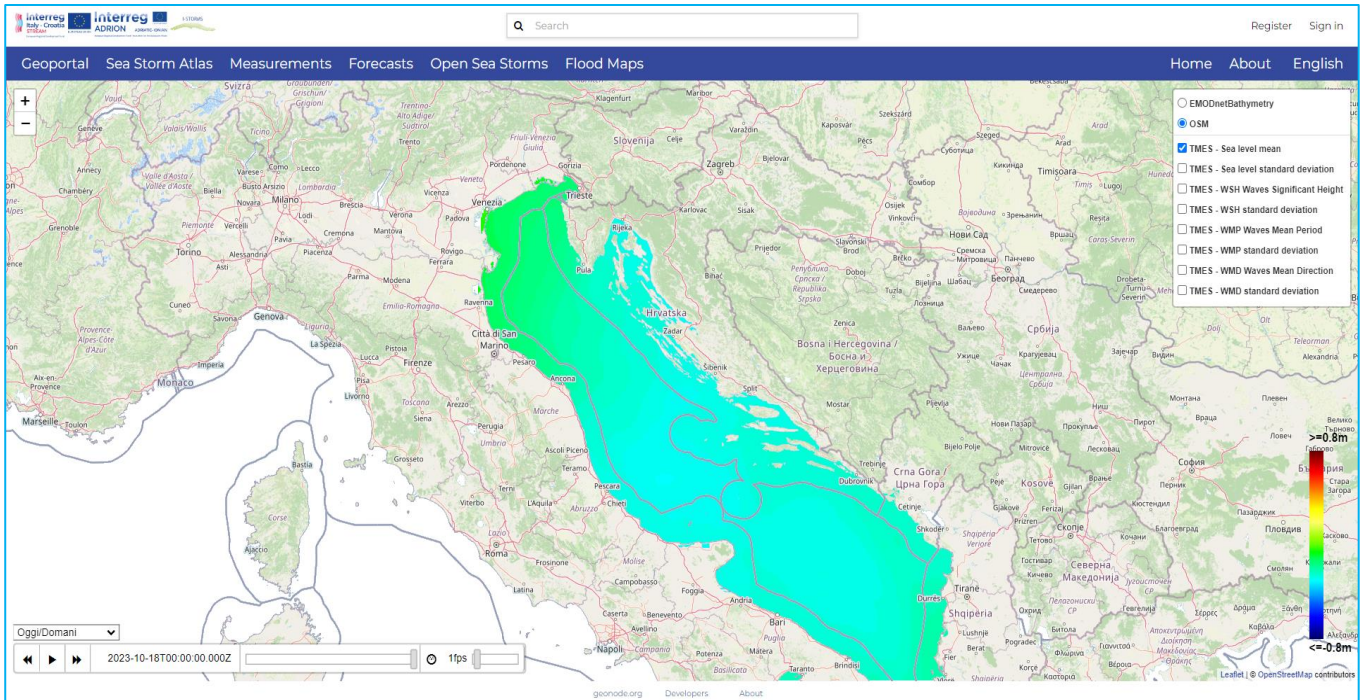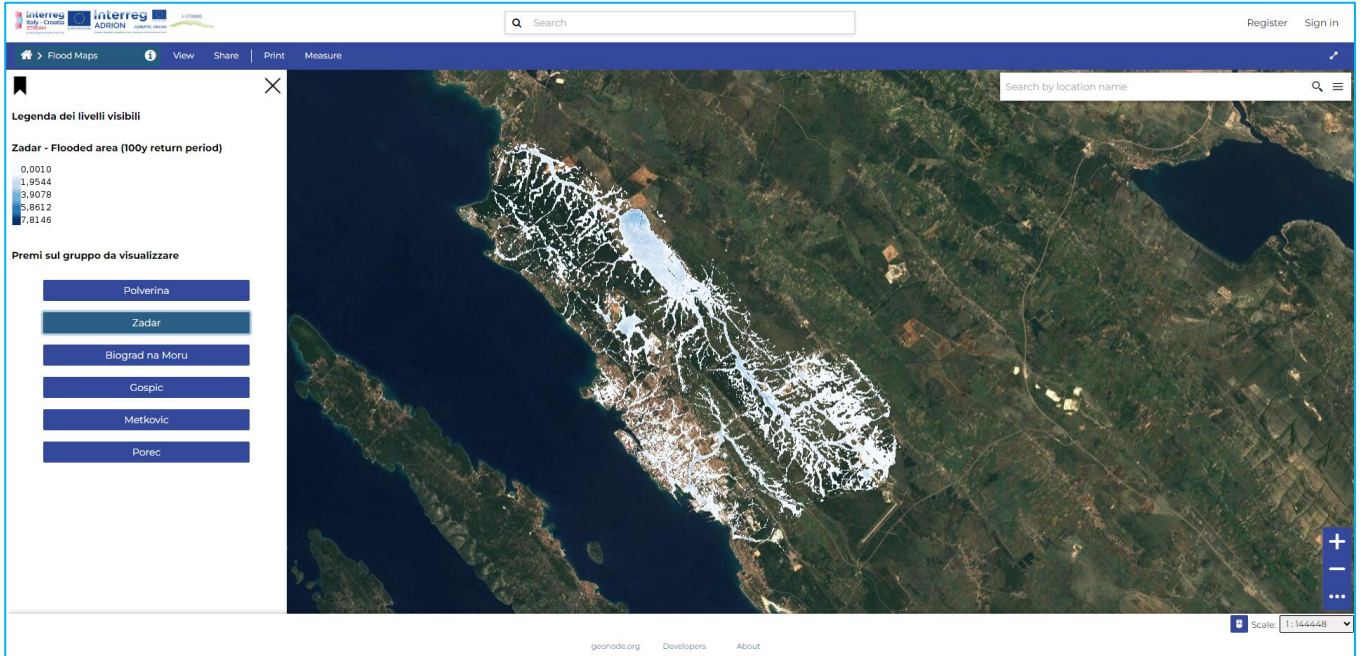*Examples of datasets found within the "Geoportal" section of the platform*
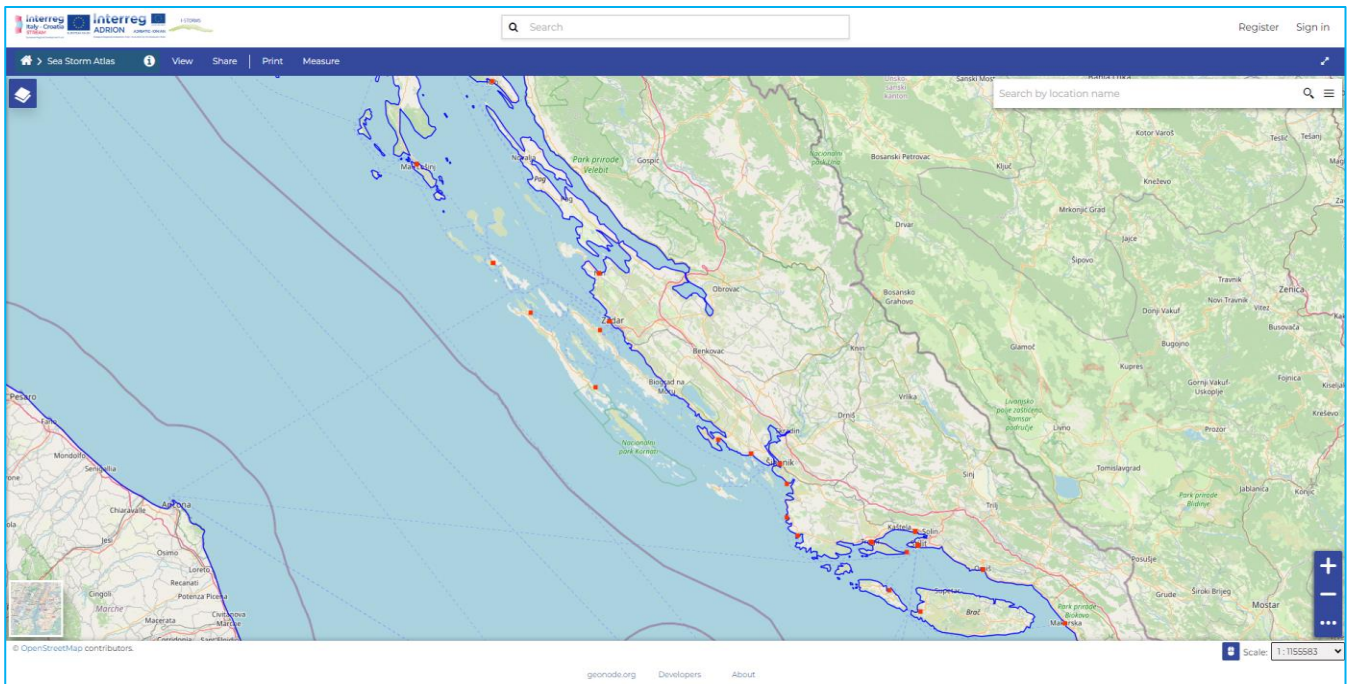
Sea Storm Atlas
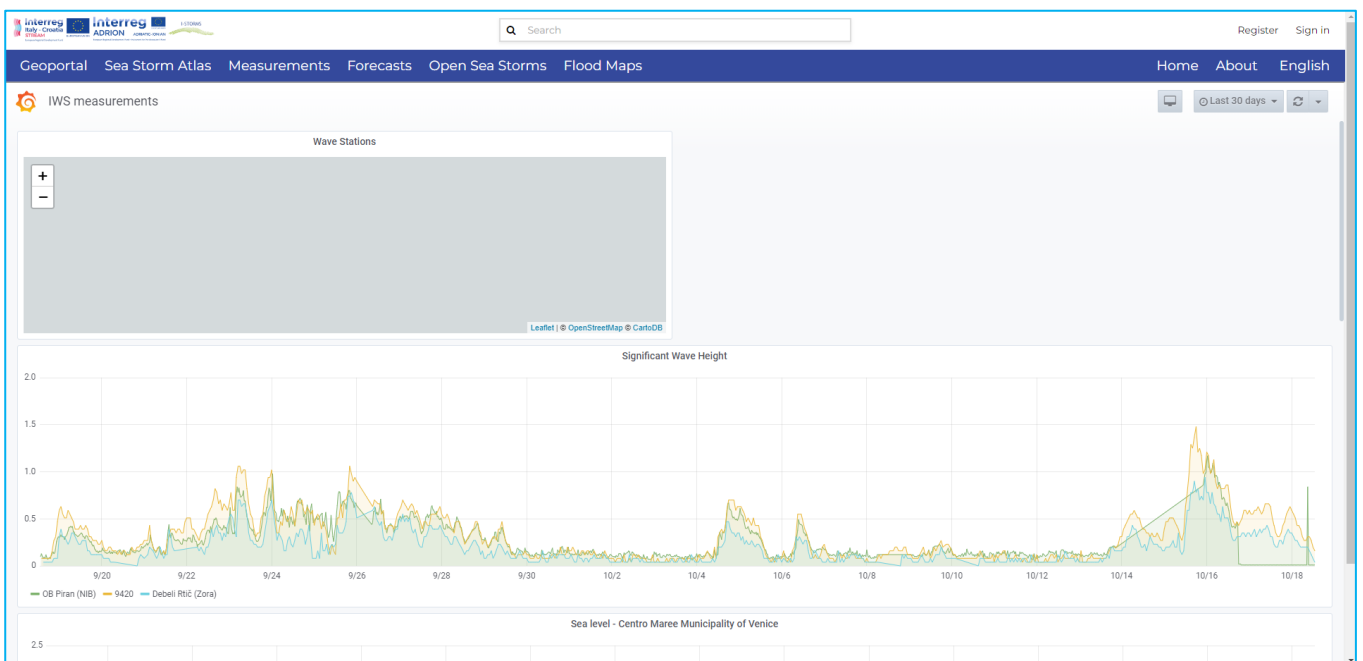
IWS Measurements example

European Regional Development Fund

Forecasts data, including a slider for time and speed of map changes (fps)

Example of one of the maps in the Flood Maps section of the platform

Conclusion

The International Flood will continue to serve as a versatile tool with a wide range of applications, including early warning systems, emergency monitoring, dam management, and impact assessment for various environmental factors. Its creation also fosters innovation in information systems tailored to flood risk emergencies. Furthermore, its incorporation of flood risk maps at different scales enhances the project's capabilities for analysis and decision-making. The platform's flexibility in accommodating additional functionalities to meet stakeholder needs underscores its adaptability and its role as an efficient, multifaceted tool designed to support different target groups and ensure the durability of project STREAM outputs.