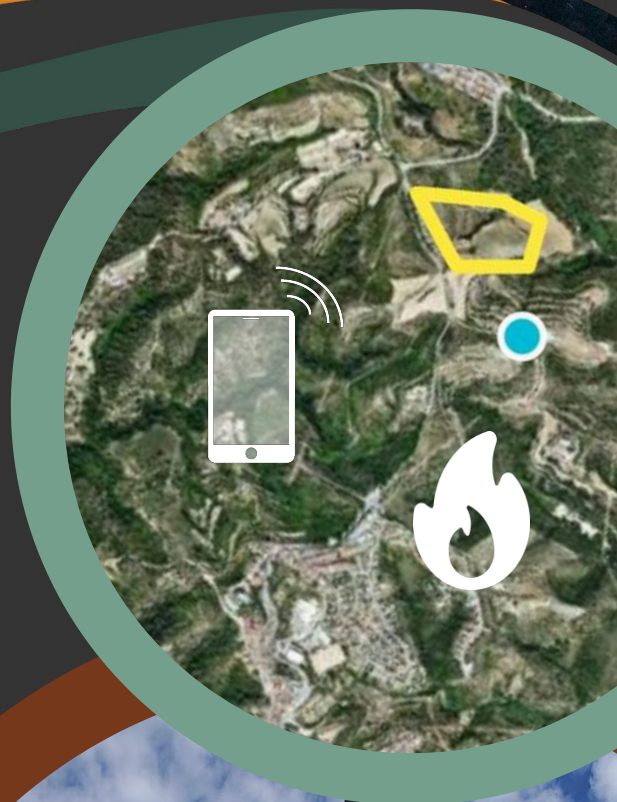




Image by Matt Palmer from Unsplash

AvInfo

Wildfire Sighting App



Wildfire Risk
Solutions for Spain

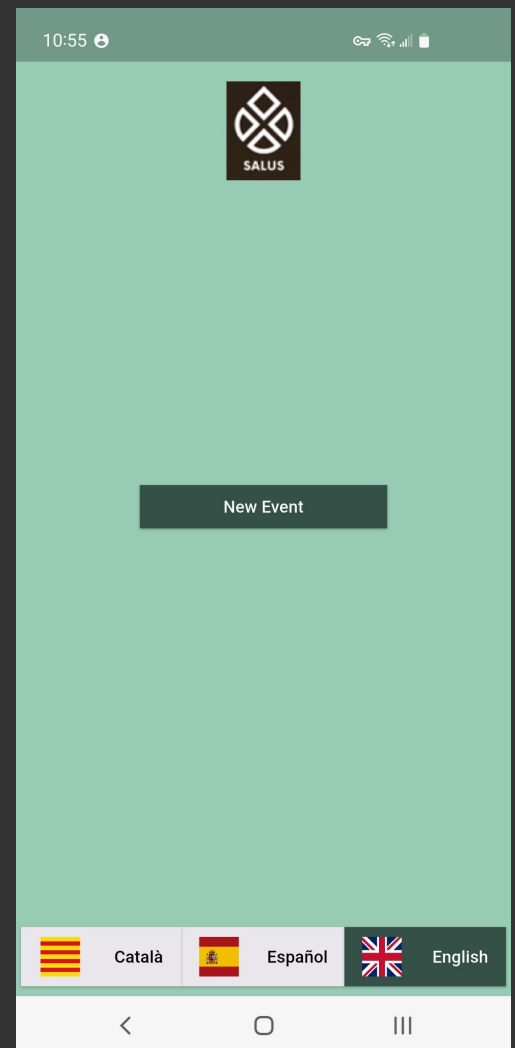
AvInFo - App

SALUS developed a wildfire sighting and reporting app named AvInFo (abbreviation in Spanish for “Avistamiento de Incendios Forestales”) to provide as a tool to register wildfire activity.

Main characteristics:

- support of GPS
- multi language
- upload of images
- questionnaires

Key aspect to note is that this tool is not linked to the official emergency services and should be used only after reporting an event to the emergency services.



Data being queried and reported by the user:

- location
- field pictures
- conditions of the wind (based on Beaufort scale)
- presence of smoke
- height, color of smoke plume
- features and activities which could increase risk of wildfire

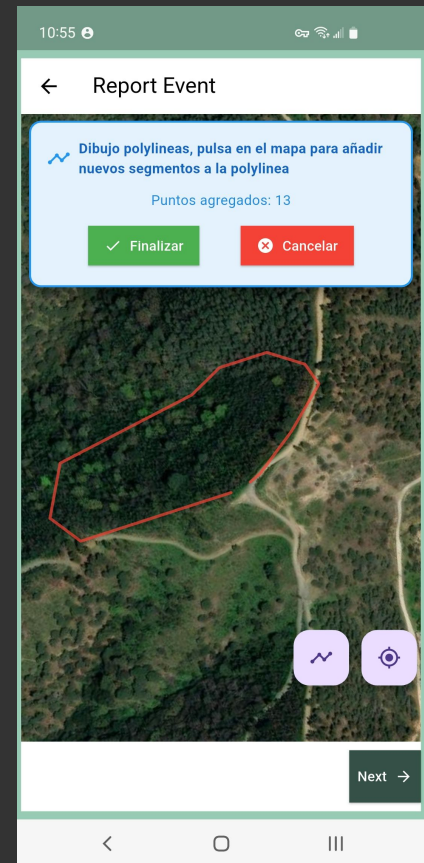
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Location

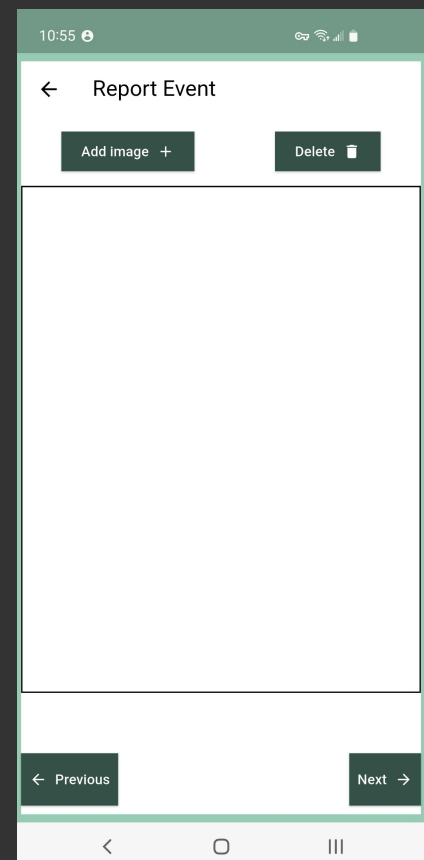
Location of the wildfire event can be reported with a single data point or a line drawn on the map.

Using GPS of the phone facilitates orientation and navigation.



Field pictures

Upload of field pictures can provide valuable information on the existing conditions of the onset and development of a wildfire event.



Smoke

Set of questions to guide the user to identify smoke conditions and describe in details in terms of size, geometry and color.

The screenshot shows a mobile application interface for reporting a smoke event. The form is titled "Report Event" and includes a "send" button in the top right corner. The form contains the following fields and controls:

- A toggle switch for "Presence of smoke".
- A dropdown menu for "Can you see the smoke column?".
- A text input field for "Number of smoke columns".
- A dropdown menu for "Smoke".
- A dropdown menu for "Smoke color".
- A dropdown menu for "Smoke column".
- A text input field for "Smoke/column height (in meters)".
- A dropdown menu for "Does the column end in a cloud or disperse?".

At the bottom of the form, there are "Previous" and "Next" buttons. The mobile status bar at the top shows the time as 10:55 and various connectivity icons.

Wind Conditions

Key information to assess and model wildfire scenarios is the wind. Using the Beaufort scale and relative description of it's categories allows to easily assess the existing wind conditions.

Additionally, the user can report presence of ambers, ashes and flames.

The screenshot shows a mobile application interface for reporting wind conditions. The form is titled "Report Event" and includes a "send" button in the top right corner. The form contains the following fields and controls:

- A toggle switch for "Presence of ashes, embers in the air".
- A dropdown menu for "Presence of flames".
- A section titled "Beaufort Scale" containing a table with columns "Condition" and "Observations".

Condition	Observations	
Calm	• Smoke rises vertically • No wind	☑
Light Air	• Smoke drift indicates wind direction • Wind vanes don't move	☑
Light Breeze	• Wind felt on face • Leaves rustle	☑
Gentle Breeze	• Leaves and twigs in constant motion • Light flags extended	☑
Moderate Breeze	• Raises dust and loose paper • Small branches move	☑

At the bottom of the form, there are "Previous" and "Next" buttons. The mobile status bar at the top shows the time as 10:55 and various connectivity icons.

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