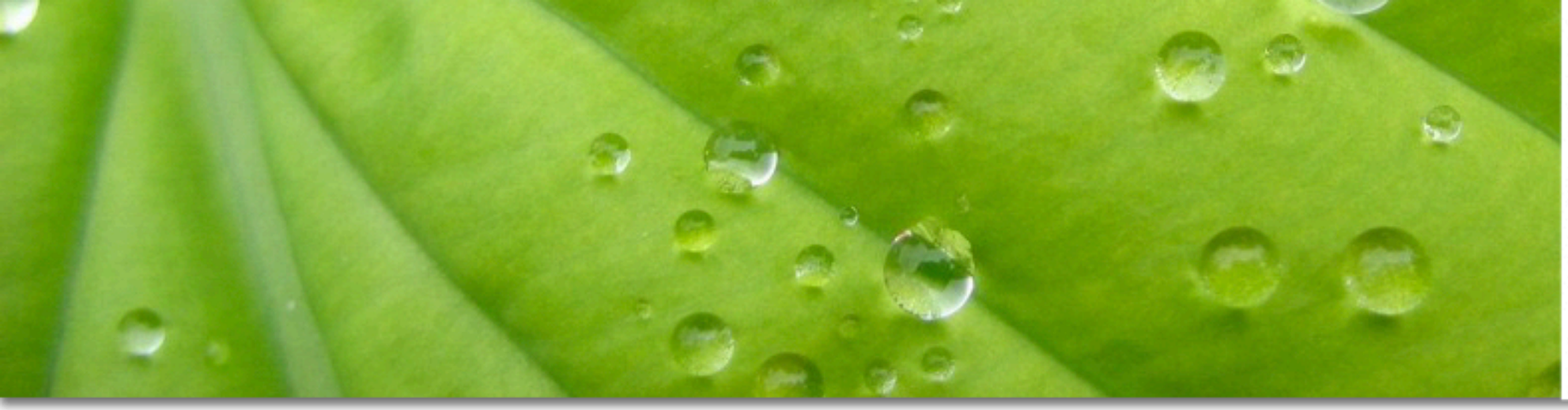


ANYWHERE:
A4EU Platforms

CENEM Training

A4EU: Main ideas

Objectives:

Single entry point to all information

Data integration (not only "maps")

Allow creation of new products
as combination of available information

Allow crossing information and issuing warnings
(products and elements)

ANYWHERE

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A4EU: Structure

Multi-Hazard information

- Multi Hazard-EWS (MH-EWS)
- Sensors
- Official NHMS Warnings (Meteoalarm)
- Regional/Local products
- …

Vulnerability information

- Risk maps
- Vulnerability maps
- Vulnerable elements
- Critical points
- …

Impact

Incidents

- 112 Calls
- Transit incidents
- Transit webcams
- Crowdsourcing
- …

Tools

- Cartographies
- Multilingual
- Searcher
- Help Wiki
- …

AI identification of priority elements/ points to be affected

ANYWHERE

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A4EU Platform - A4CENEM skin



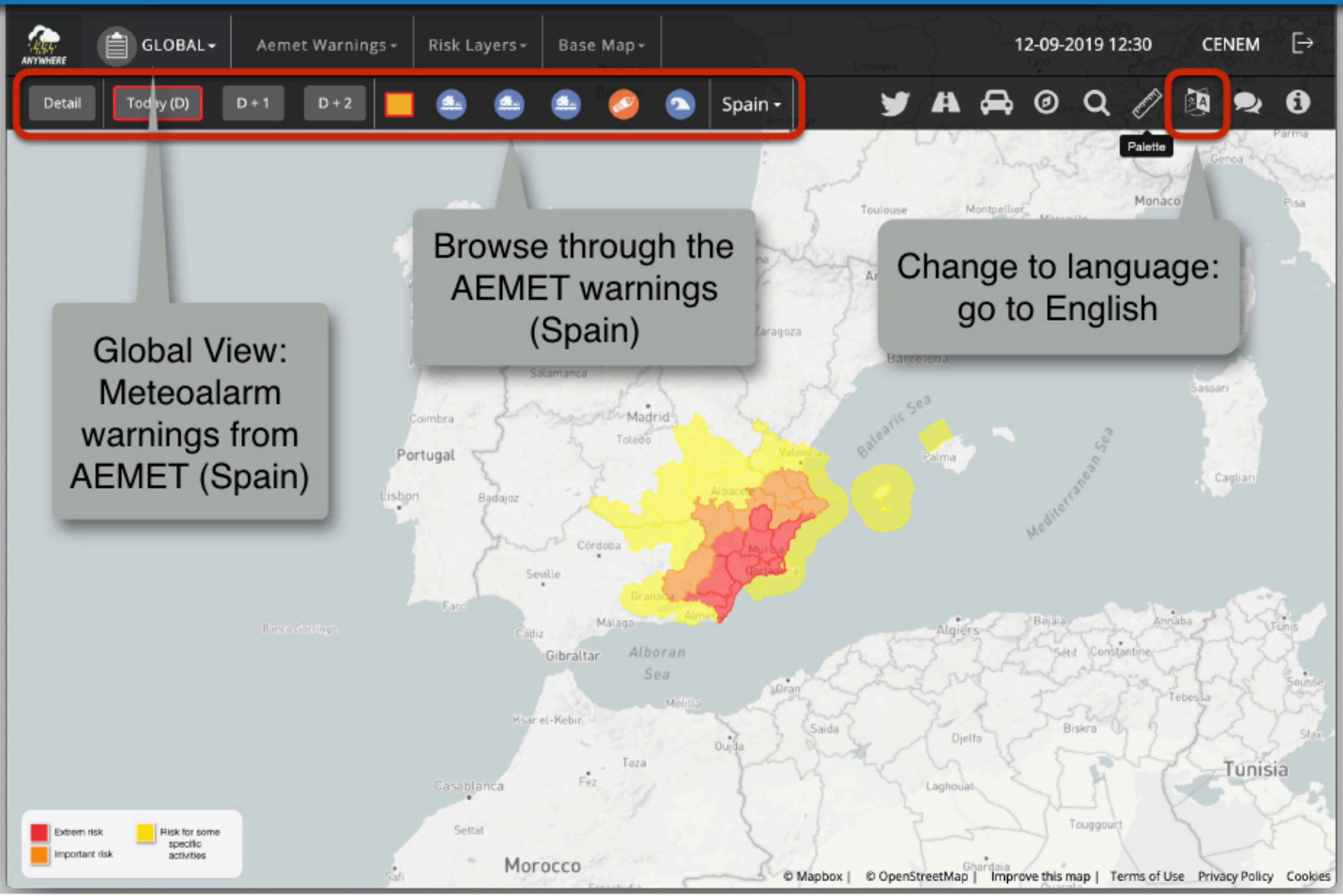
ANYWHERE

CRAHI

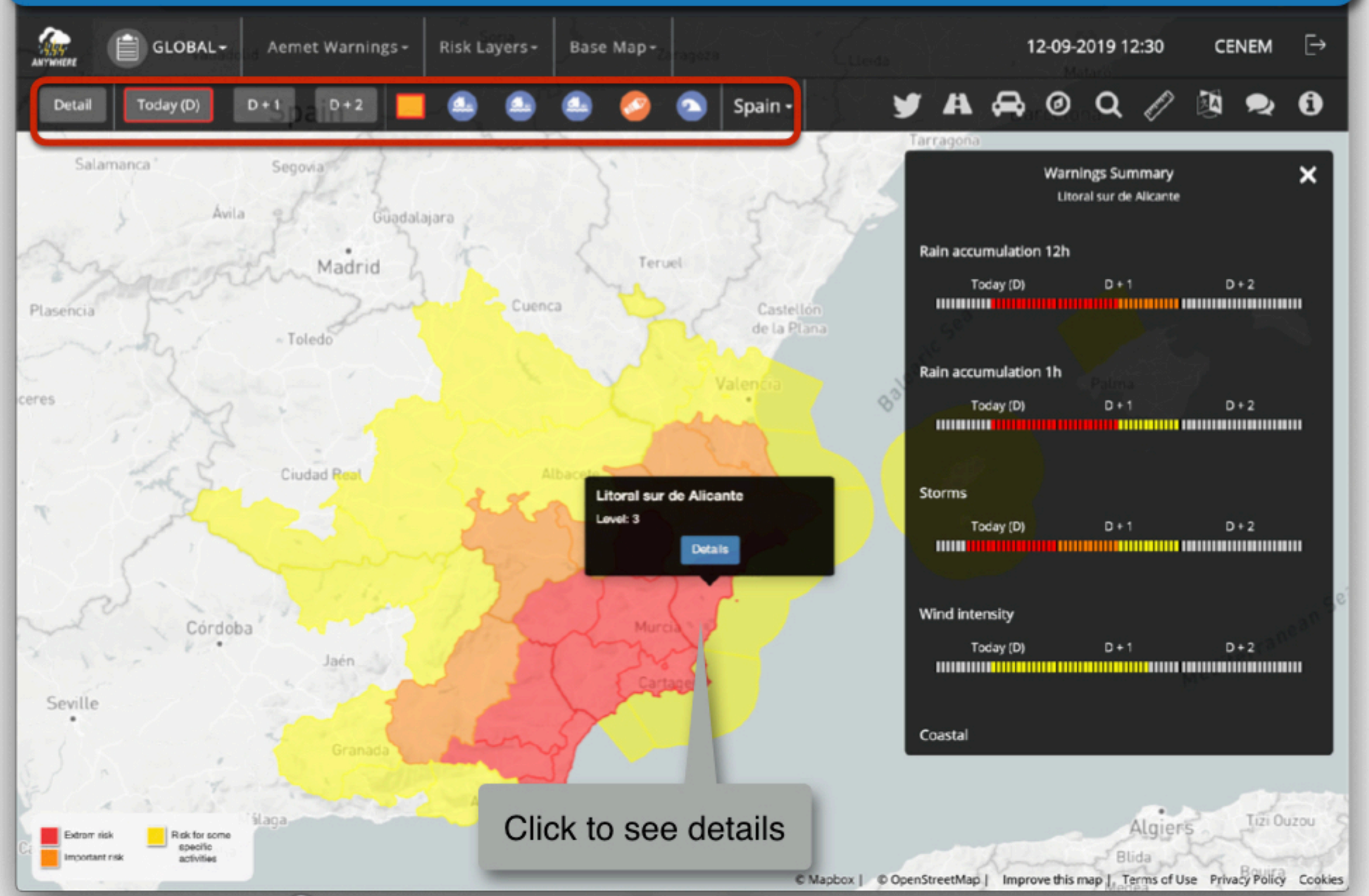
UPC

hydS

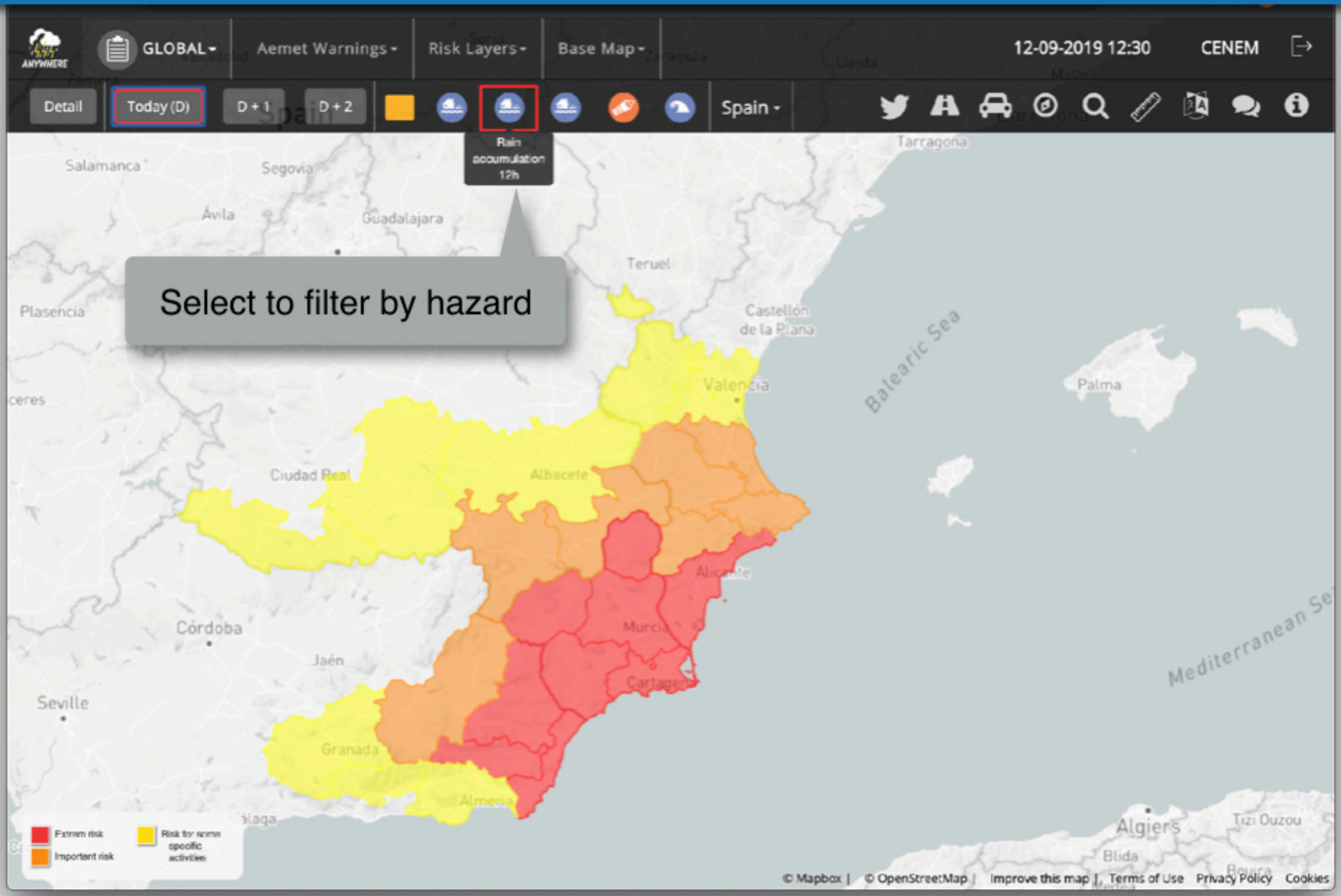
A4EU Platform - A4CENEM skin



A4EU Platform - A4CENEM skin



A4EU Platform - A4CENEM skin



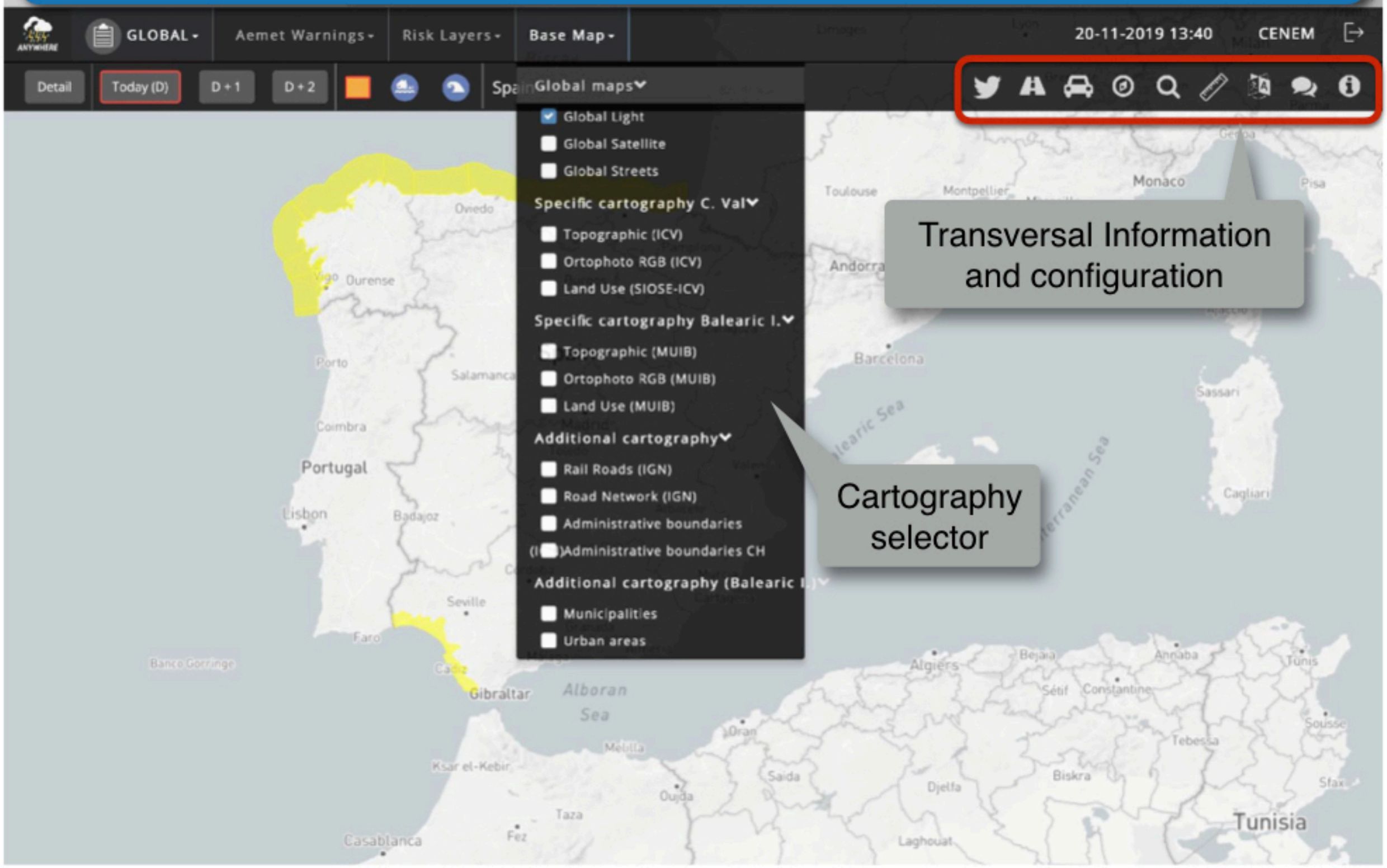
ANYWHERE

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A4EU Platform - A4CENEM skin



A4EU Platform - Cartography



Global cartography

Detailed local cartography

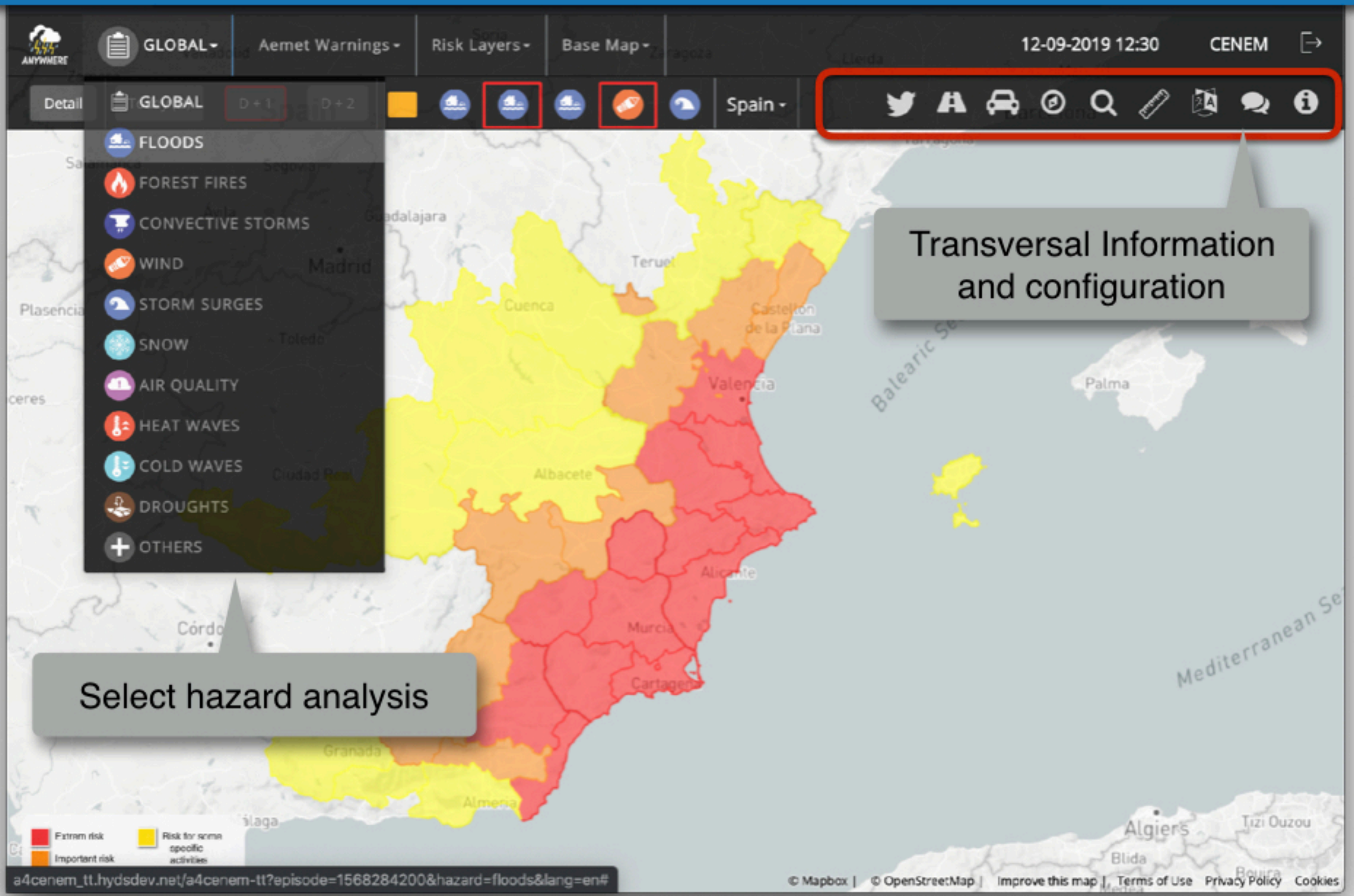


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A4EU Platform - A4CENEM skin



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A4EU Platform: Transversal information



Information
Wiki link

A4EU Platform: Transversal information

- Radar (1 h Accum) (OPERA)
- Rainfall Warnings (SMC)
- Rainfall Warnings (OPERA)
- River Warnings (SMC)
- River Warnings (OPERA)
- SMP Rain Intensity Observation War
- SMP Rain Accumulation Observatior
- Fluvial Warnings (ACA)
- SMP Rain Intensity Warnings (SMC)
- SMP Rain Accum Warnings (SMC)
- Rain Intensity Warnings (AEMET)
- Rain Accum Warnings (AEMET)
- Municipal SMP Propagation (INUNC
- Dynamic Risk (CECAT)
- Flood Warning (EFAS)
- Precipitation forecasts (IFS-ECMWF
- Flood Risk Layers
  - Flood Areas
  - Risk Areas
  - **Flood Critical Elements**
- Forest Fires
- Convective Storms
- Wind
- Storm Surges
- Snow
- Air Quality
- Heat and Cold Waves
- Droughts

Herramientas de espacio

Flood Critical Elements

Creado por Xavi Llort, modificado por última vez en jun 05, 2018

Elements risk activation

Color of the elements at risk in relation to their warning level:

- **No forecasted risk**
- **Element forecasted to be at risk**

When clicking on a critical point, a pop-up shows information of the element (see example on the right) :

- Name of the elemet
- Category (see below)
- Return period in which the element is located according to the **Flood Areas** (see **Critical Elements Activation** page for details).



You can find the details about the activation process of the Critical elements in the **Critical Elements Activation** page.

Elements and sources of information

The critical elements included in the A4Cat platform for floods hazard and their source are:

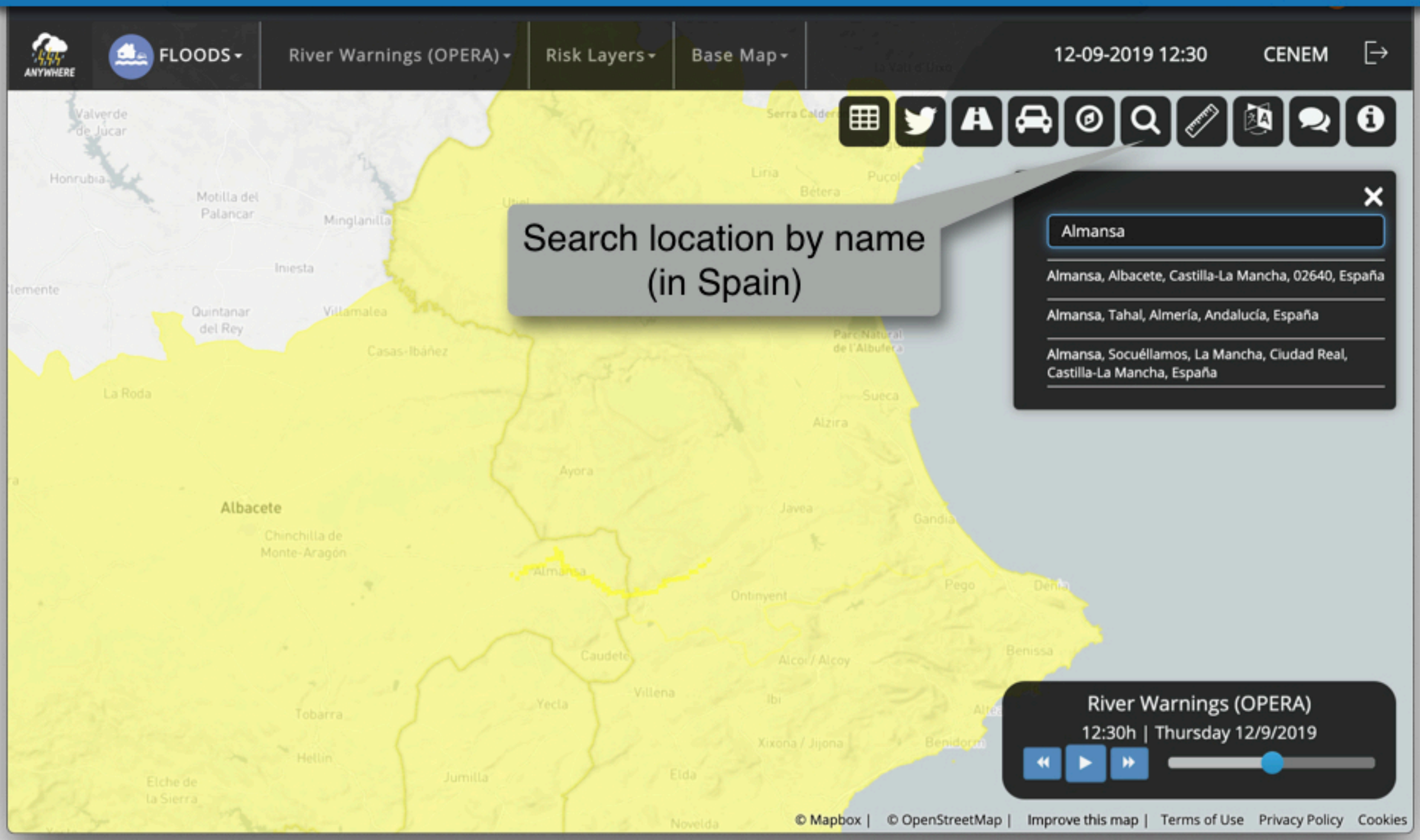
Icon	Element	Source
	Aeronautical Infrastructure	El Mapa de Protecció Civil de Catalunya
	Education Center	Departament d'Ensenyament
	Health Center	
	Train Station	El Mapa de Protecció Civil de Catalunya
	Industry	El Mapa de Protecció Civil de Catalunya
	Camping Site	Local Critical Points provided by Civil Protection

A4EU Platform: Transversal information



Almansa

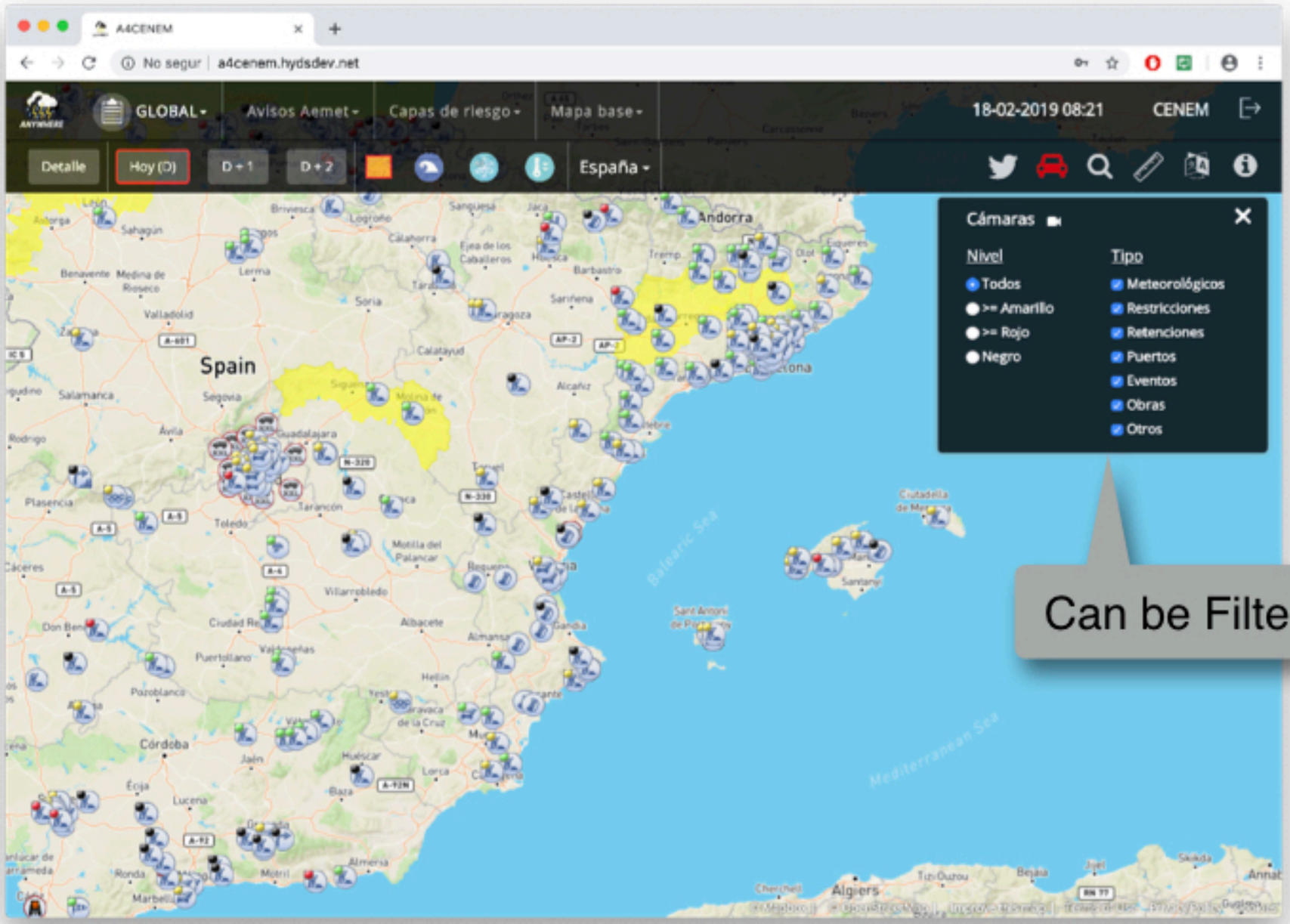
A4EU Platform - A4CENEM skin



A4EU Platform: Transversal information



Traffic incident reports



Can be Filtered by typology

ANYWHERE

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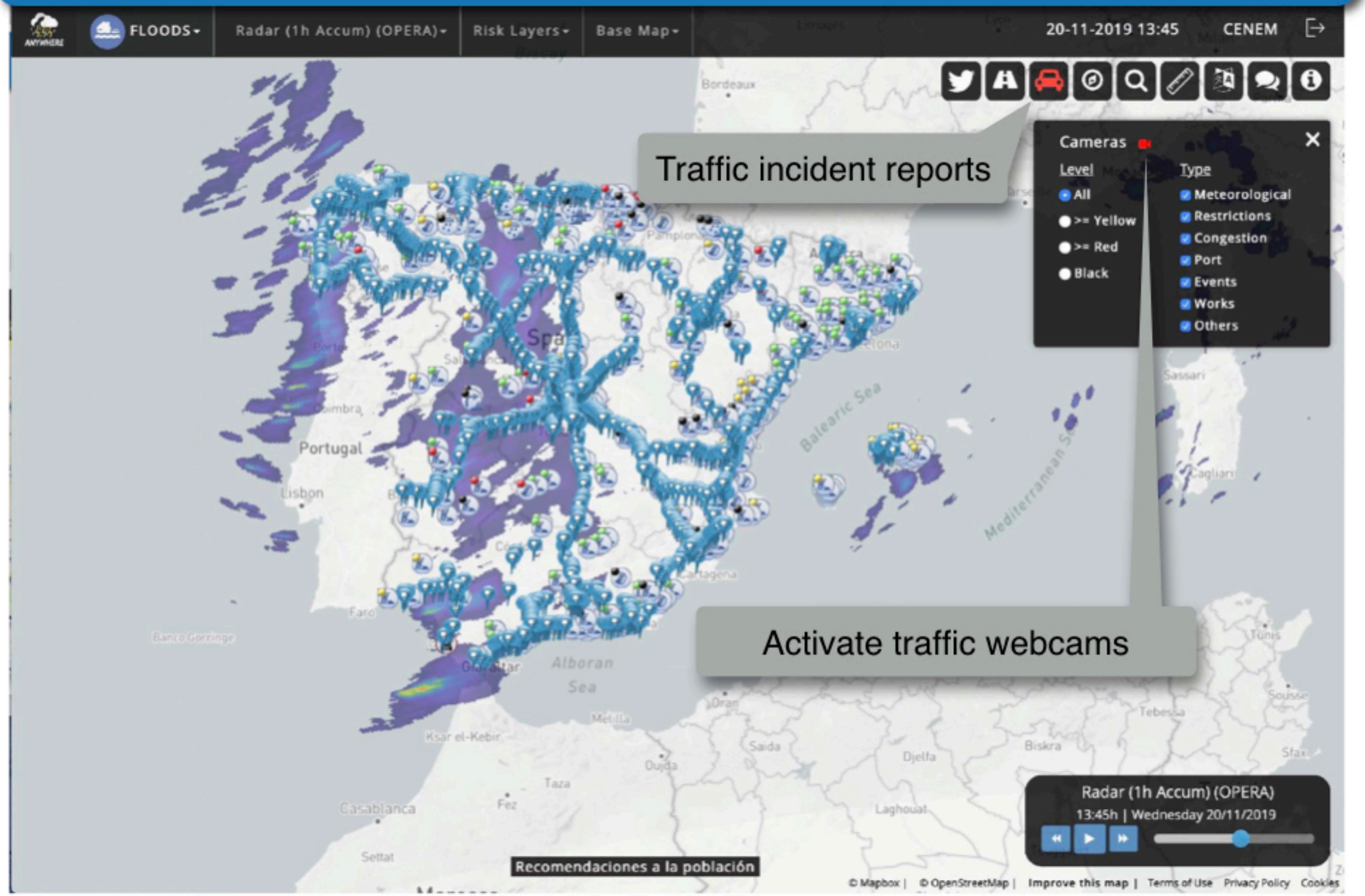
hyds

A4EU Platform: Transversal information

Traffic incident reports

Click on it for details

A4EU Platform: Transversal information

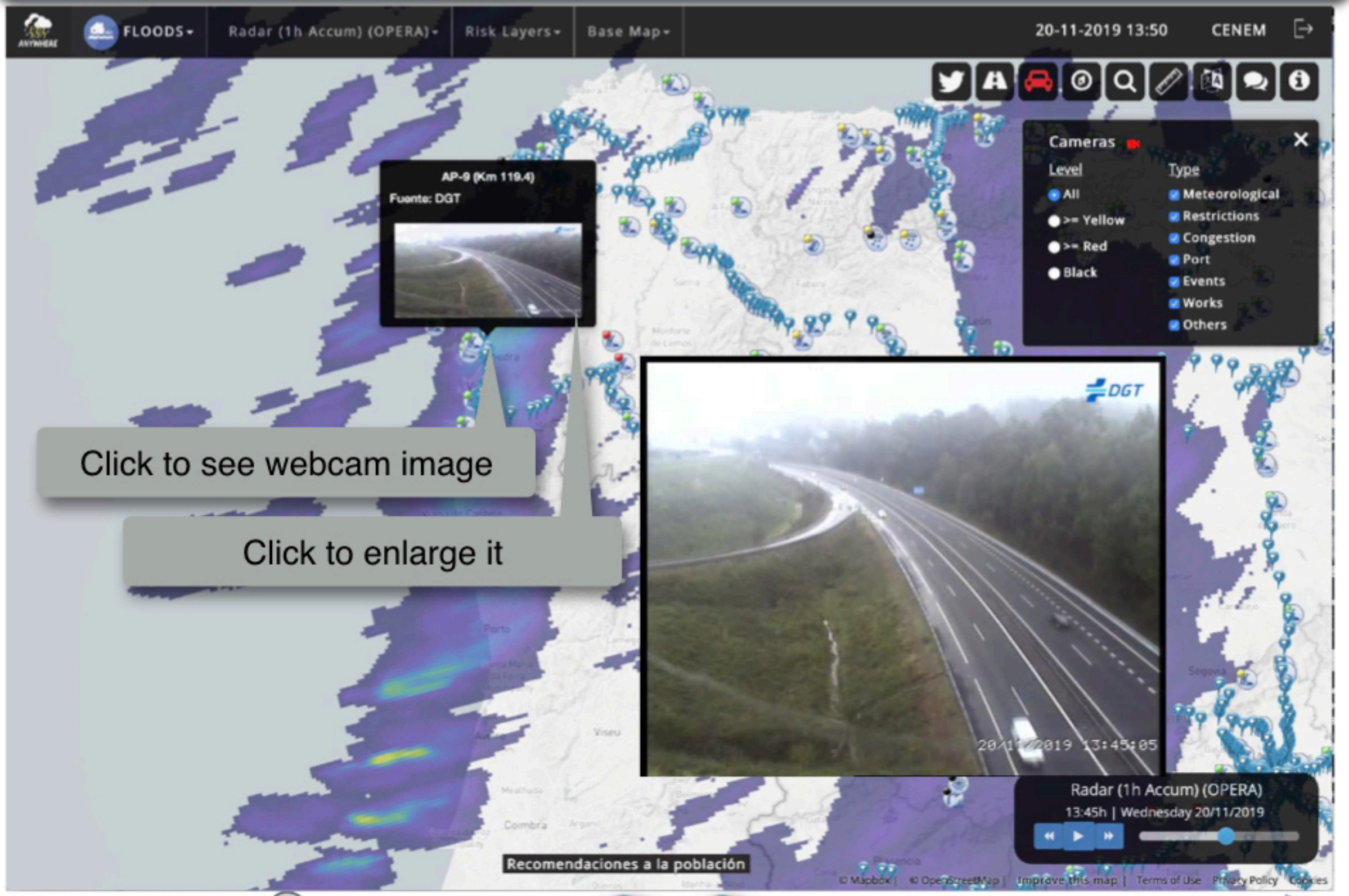


ANYWHERE

CRAHI UPC

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A4EU Platform: Transversal information



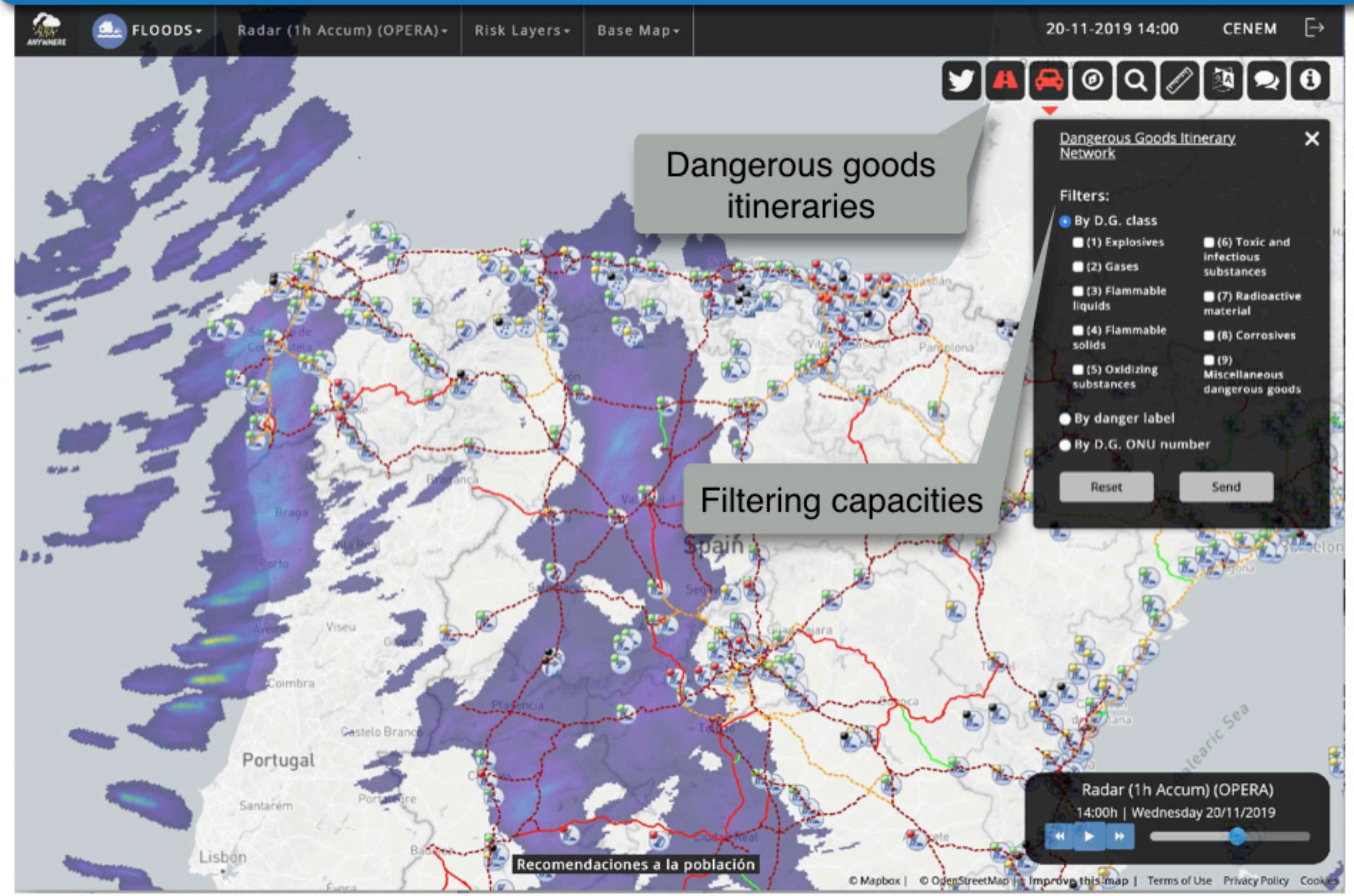
ANYWHERE

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UPC

hydS

A4EU Platform: Transversal information

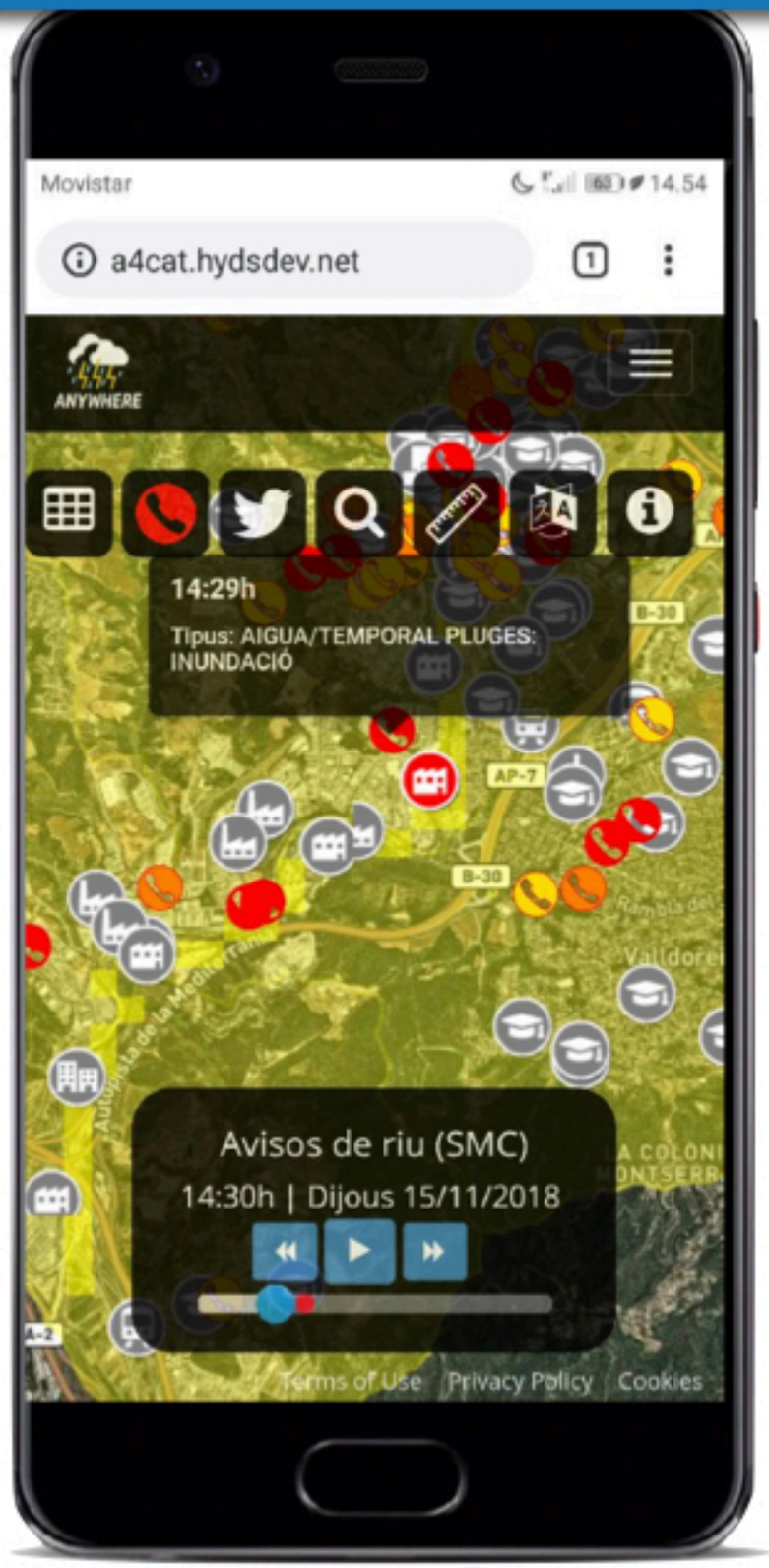


ANYWHERE

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hydS

A4EU Platform: Transversal information



112 geolocated calls
Only A4Cat

Filtered Tweetts

112

- Last 30 min
- (30, 60] min ago
- (60, 90] min ago

Filters by typology

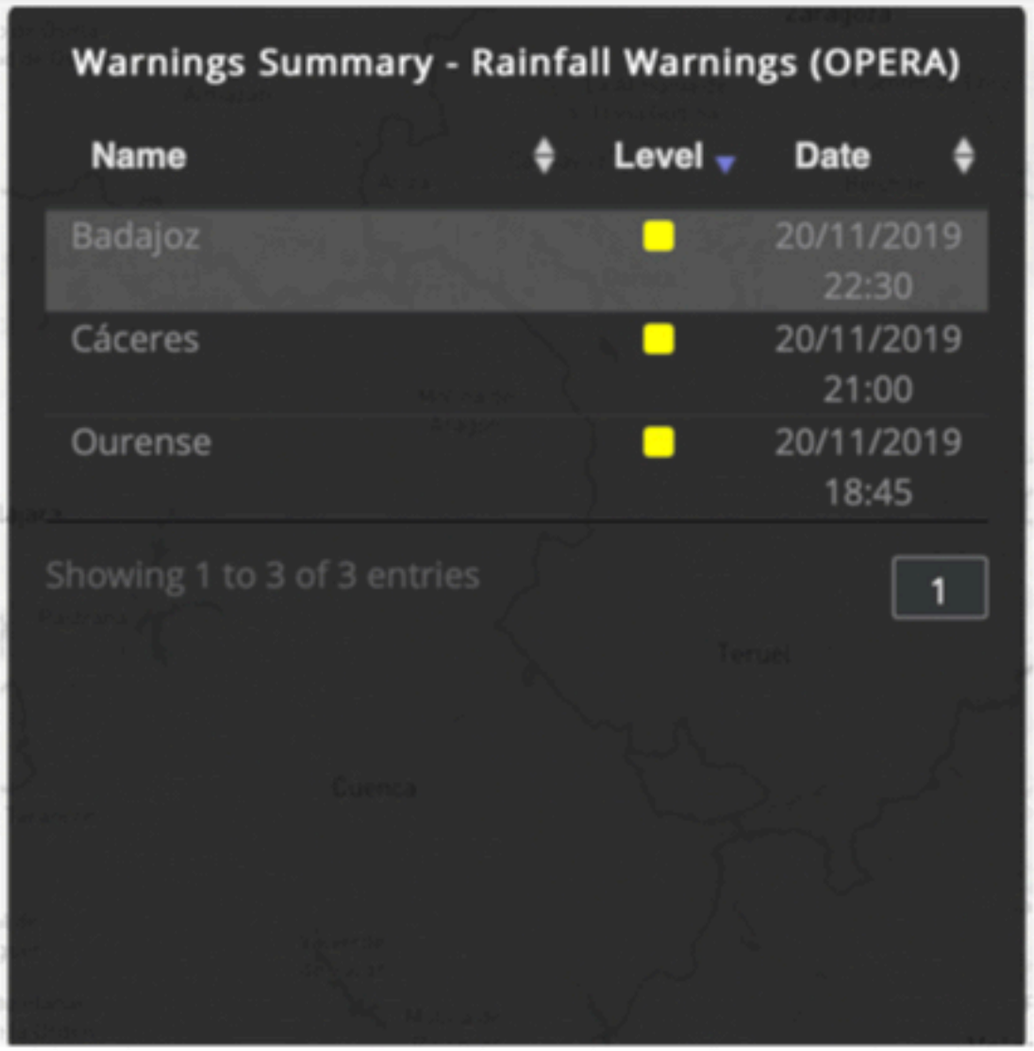
ANYWHERE

CRAHI UPC

hyds

A4EU Platform: Transversal information

Warning summary tables
(in products linked to automatic warnings)



112 geolocated calls
Only A4Cat

Twitter

Traffic

Search

Legend

Language

Information
Wiki link

Filtering capacities
Space and temporal links if you click on the name of the item

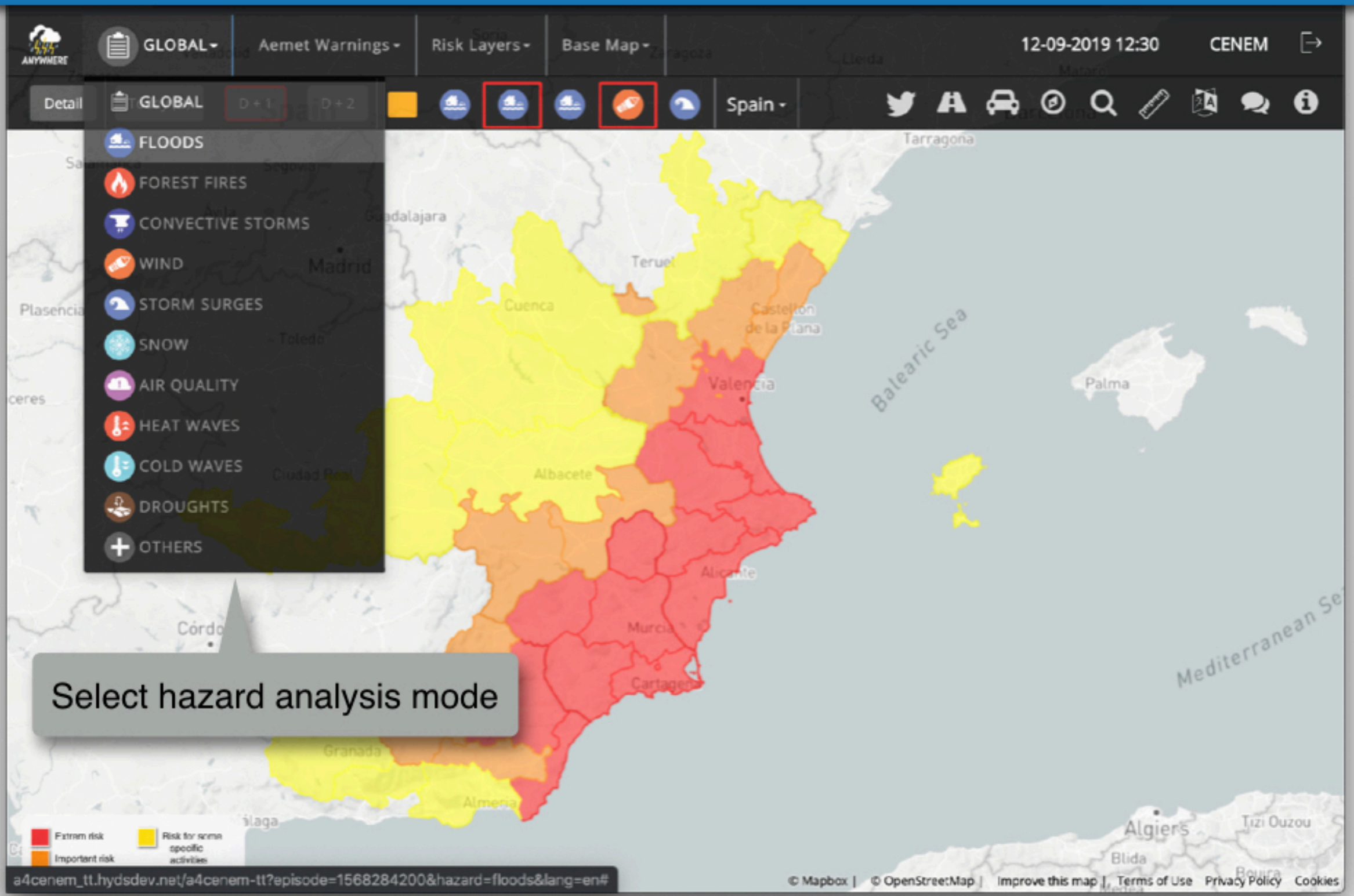
ANYWHERE

CRAHI

UPC

hydS

A4EU Platform - A4CENEM skin

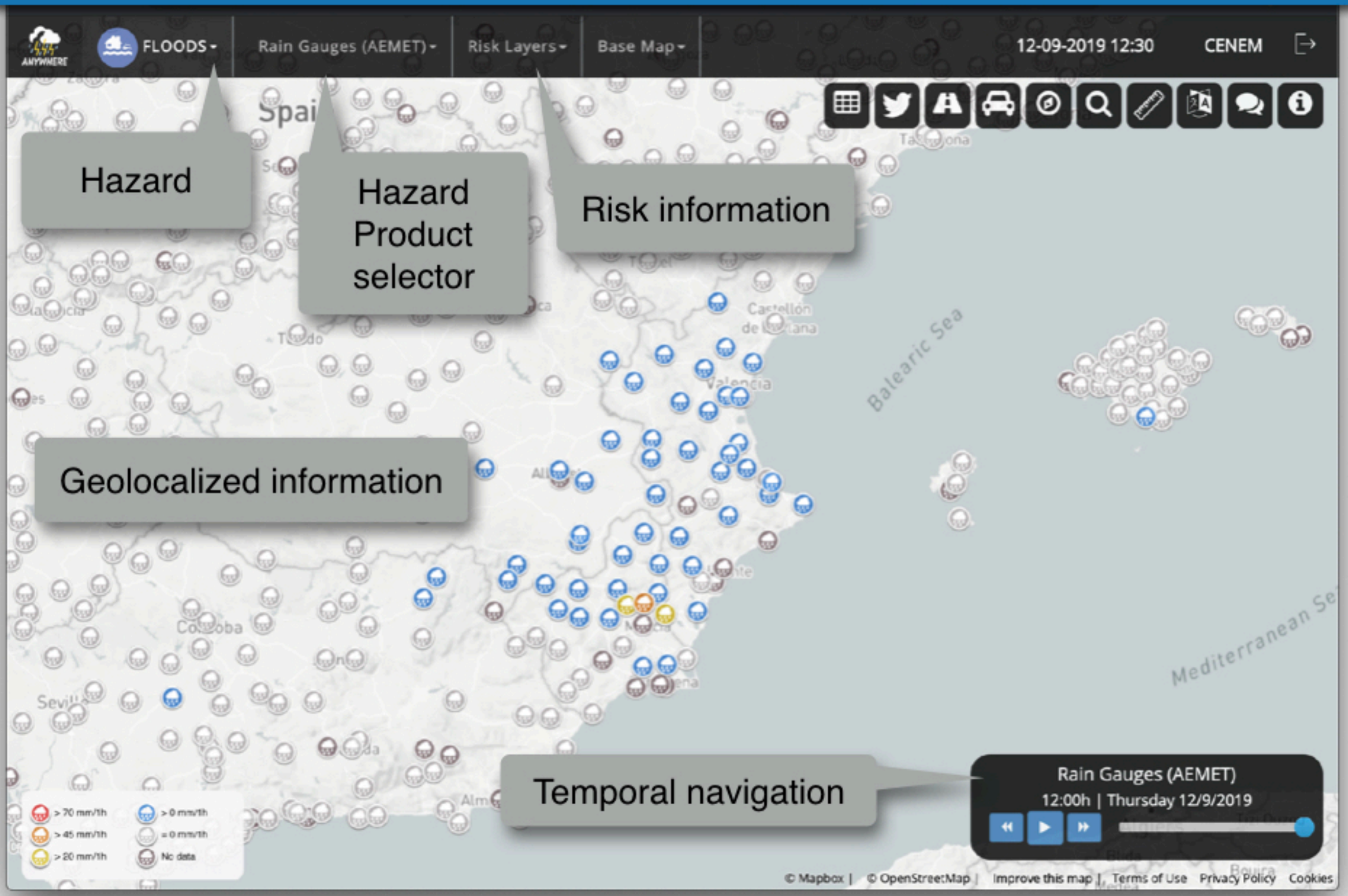


ANYWHERE

CRAHI UPC

hydS

A4EU Platform - A4CENEM skin

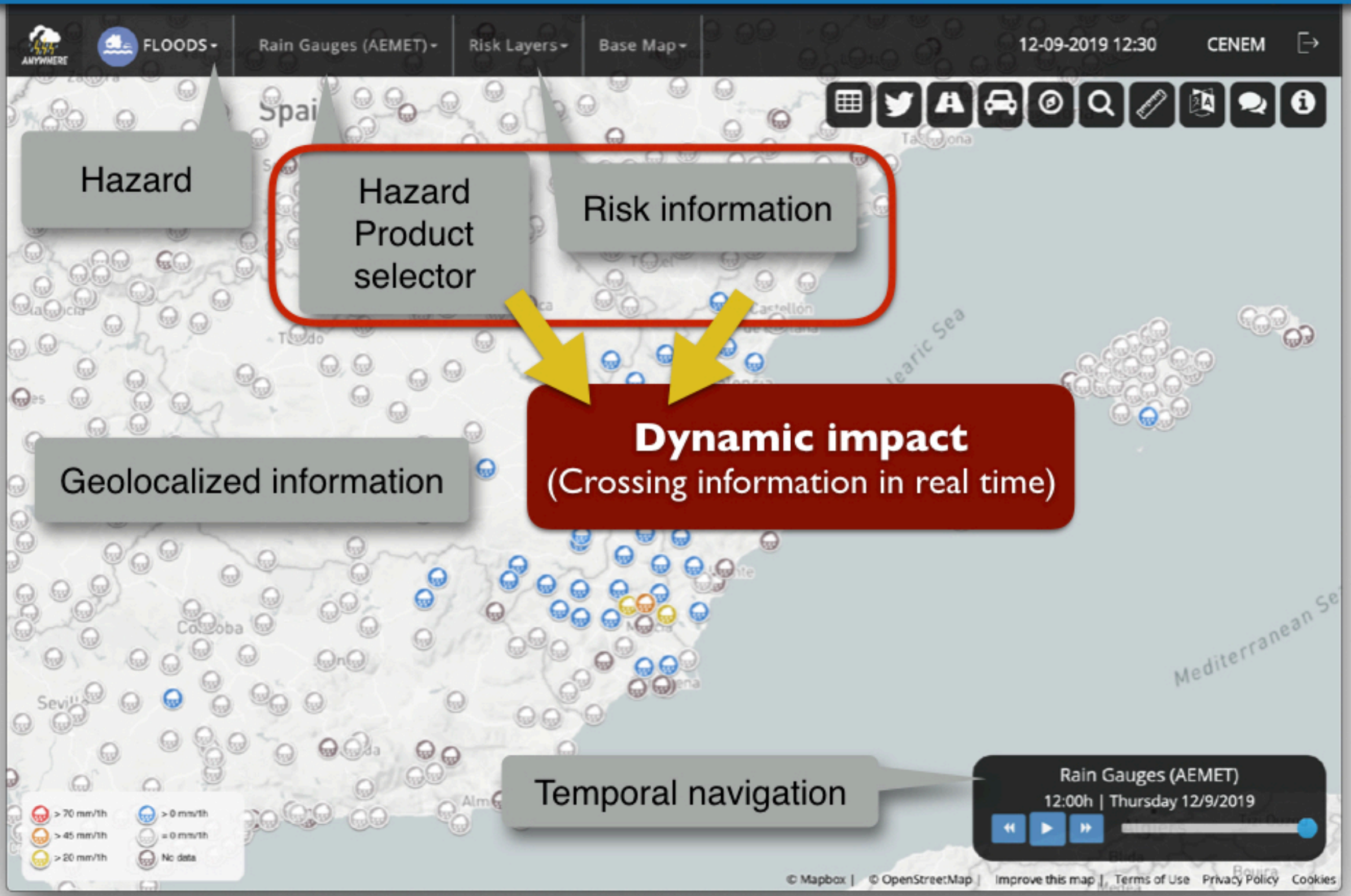


ANYWHERE

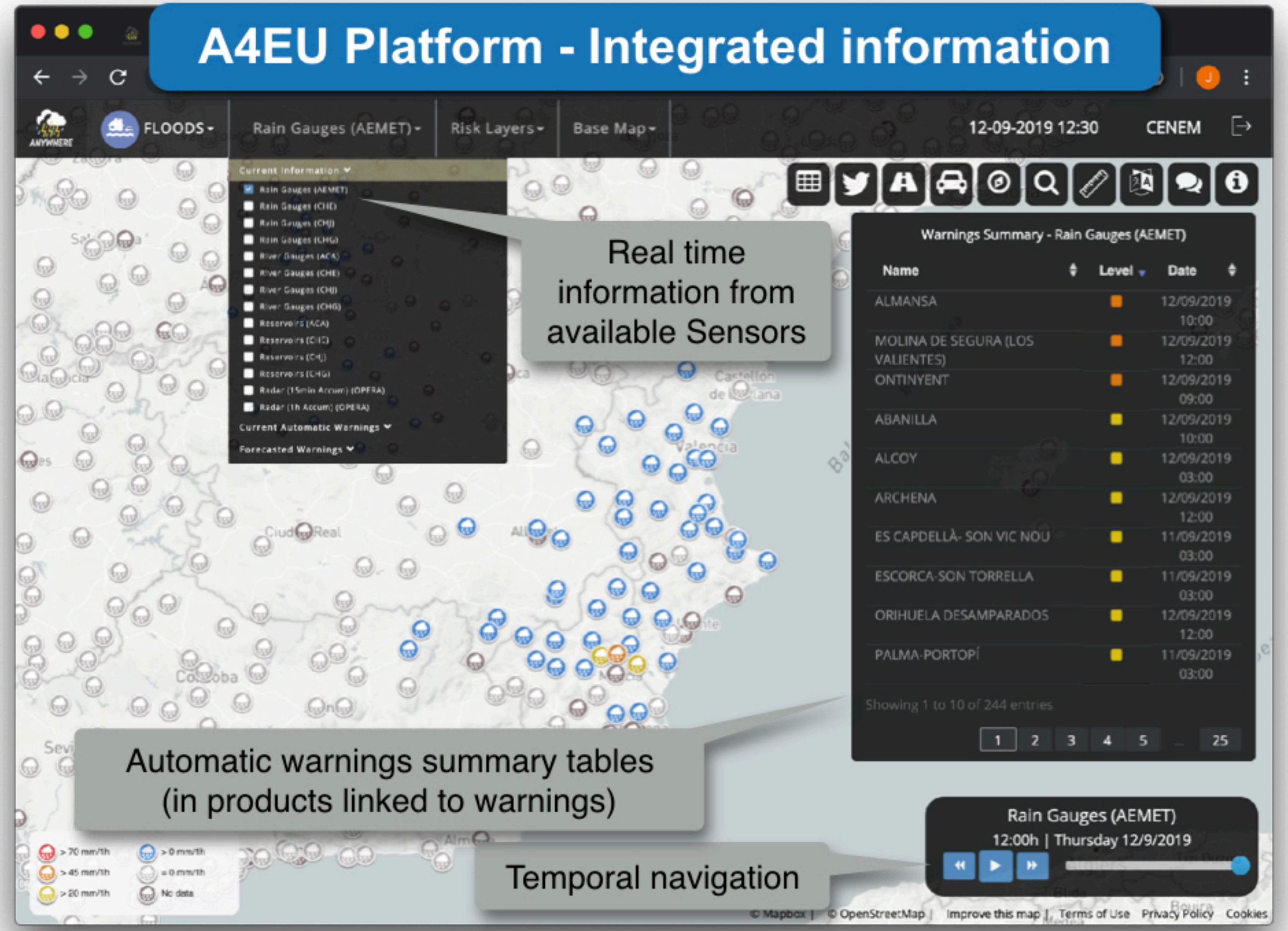
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A4EU Platform - A4CENEM skin



A4EU Platform - Integrated information



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Rain gauges

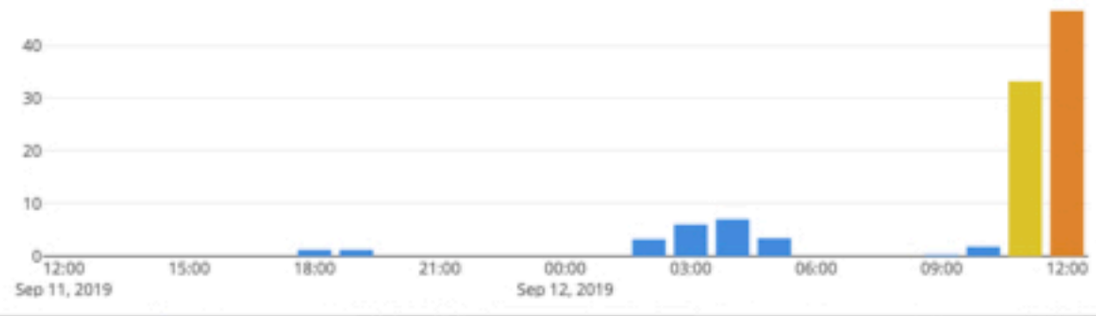
A4EU Platform - Integrated information

FLOODS | Rain Gauges (AEMET) | Risk Layers | Base Map | 12-09-2019 12:30 | CENEM

Raingauges

Evolution of Rain Gauges (AEMET) [mm]

Sensor : MOLINA DE SEGURA (LOS VALIENTES)



MOLINA DE SEGURA (LOS VALIENTES)

Value: 46.6 mm

Gráfica

Click to see details and graphic

> 70 mm/1h | > 0 mm/1h
> 45 mm/1h | = 0 mm/1h
> 20 mm/1h | No data

Rain Gauges (AEMET)
12:00h | Thursday 12/9/2019

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ANYWHERE

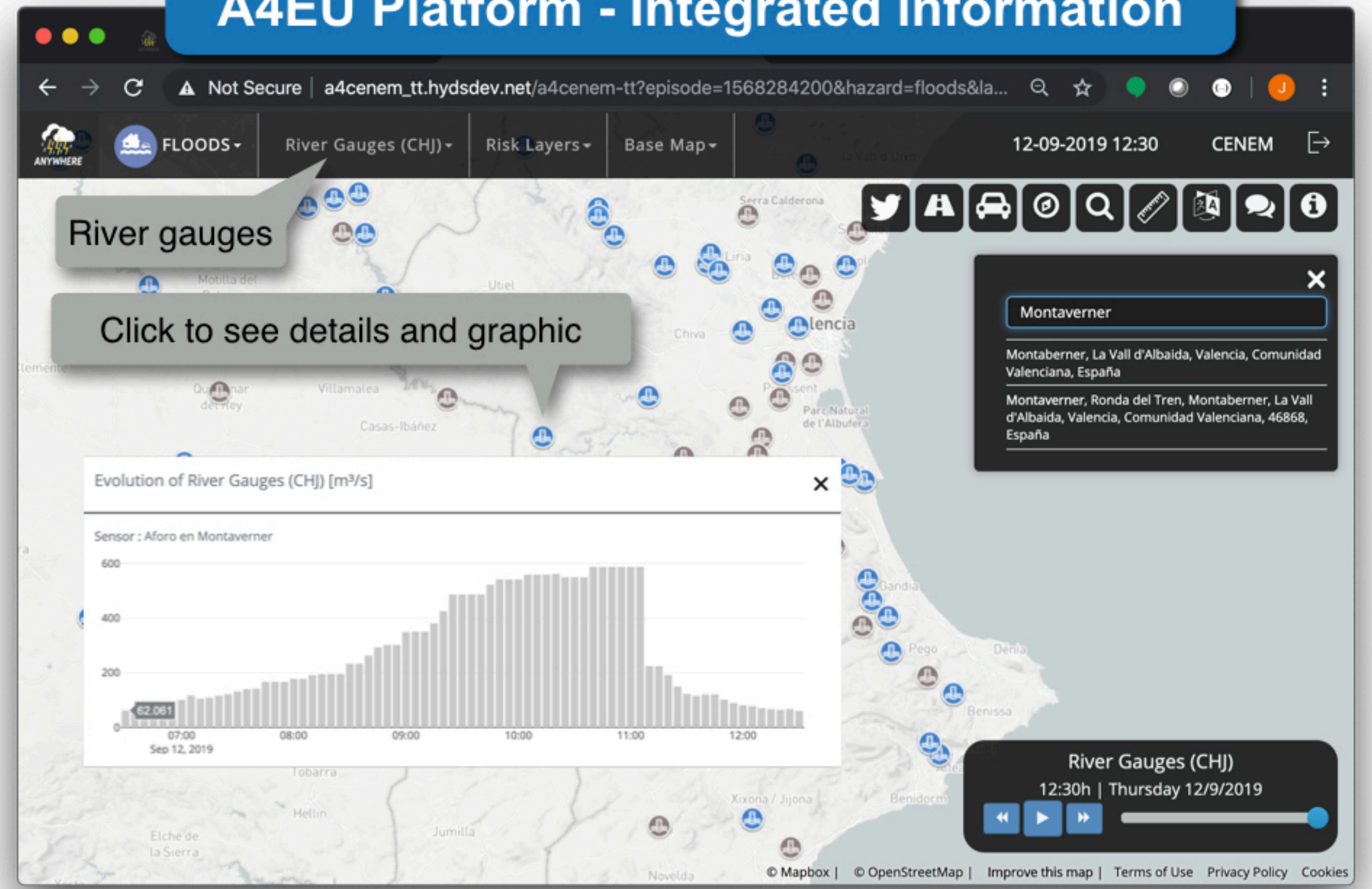
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River gauges

A4EU Platform - Integrated information



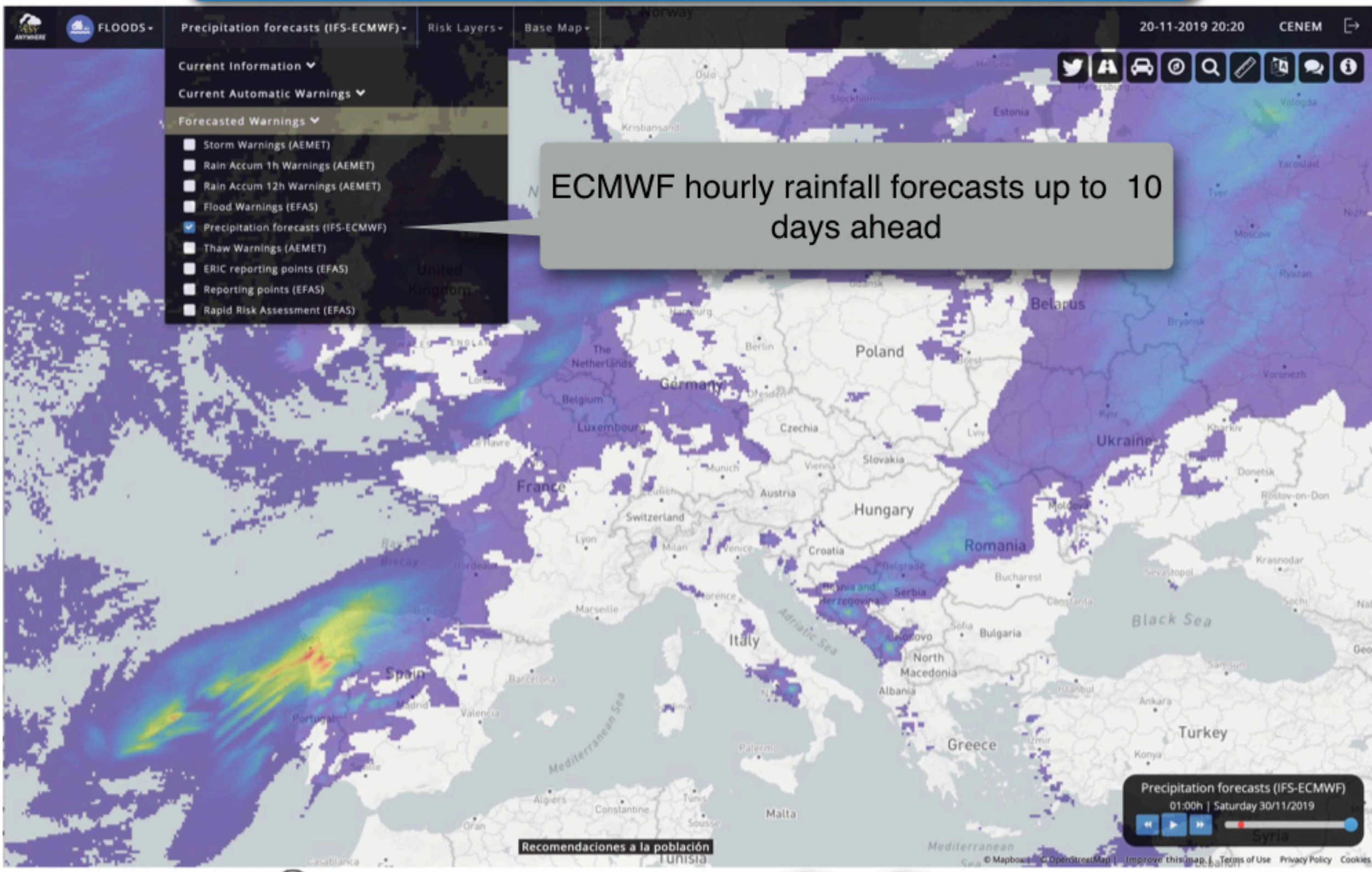
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A4EU Platform - Forecasting products



A4EU Platform - Forecasting products



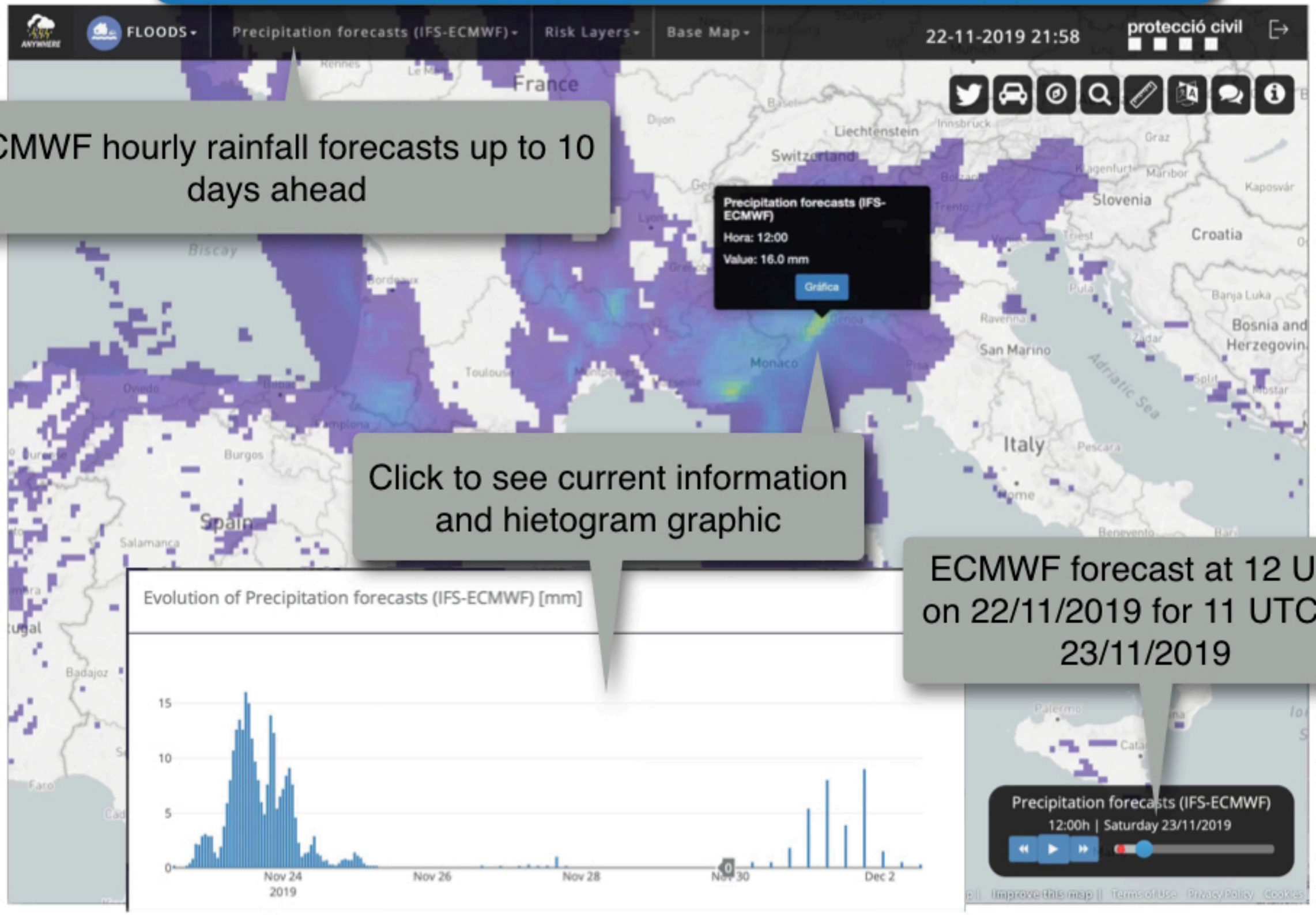
OPERA radar rainfall including nowcast up to 5 hours ahead

A4EU Platform - Forecasting products

ECMWF hourly rainfall forecasts up to 10 days ahead

Click to see current information and hietogram graphic

ECMWF forecast at 12 UTC on 22/11/2019 for 11 UTC on 23/11/2019



ANYWHERE

ECMWF

hydS

A4EU Platform - Impact products - Floods

Automatic rainfall warnings
(based on EU OPERA radar)

Automatic warnings summary tables
(in products linked to warnings)

Not Secure | a4cenem_tt.hydsdev.net/a4cenem-tt?episode=1568284200&hazard=floods#

FLOODS | Rainfall Warnings (OPERA) | Risk Layers | Base Map | 12-09-2019 12:30 | CENEM

Warnings Summary - Rainfall Warnings (OPERA)

Name	Level	Date
Alacant/Alicante		12/09/2019 07:45
València/Valencia		12/09/2019 07:15

Showing 1 to 2 of 2 entries

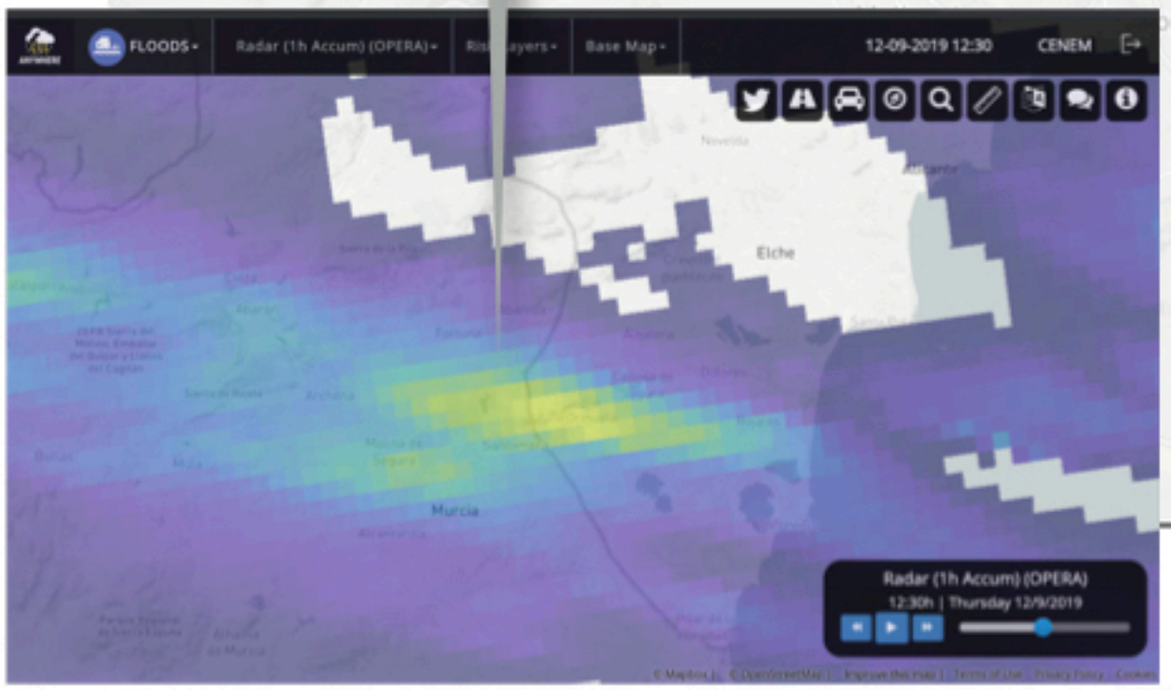
Rainfall Warnings (OPERA)
12:30h | Thursday 12/9/2019

Orihuela
Novelda
Elche
Crevillent
Albatera
Callosa de Segura
Dolores
Torrevieja
Pilar de la Horadada
Sierra de la Pila
Cieza
Abarán
Abanilla
Fortuna
ZEPA Sierra del Molino, Embalse del Quipar y Llanos del Cagitán
Sierra de Ricote
Archena
Molina de Segura
Santomera
Bullas
Mula
Murcia
Alcantarilla

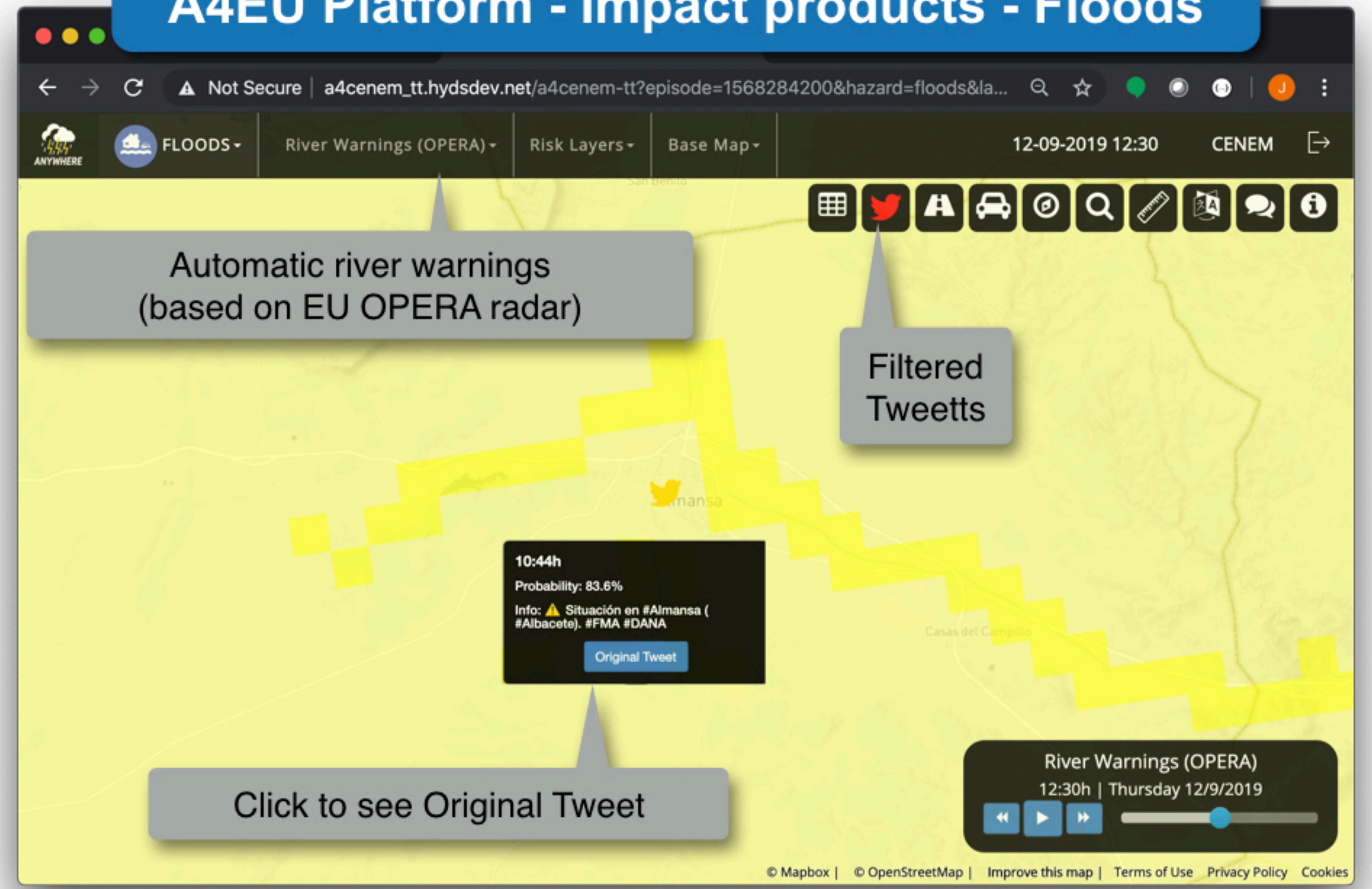
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A4EU Platform - Impact products - Floods

Flood River warnings based on rainfall nowcasting using radar



A4EU Platform - Impact products - Floods



Almansa

A4EU Platform - Impact products - Floods

twitter.com/APAMCLM/status/1172065096585154560

Home

#GotaFría
#DANA



1:31 am - 12 Sep 2019

32 Retweets **44** Likes

Castilla-La Mancha, 112 Castilla-La Mancha and José Luis Escudero

InfoMeteoT
@InfoMeteoTuit

Previsiones meteo
Astronomía.

Joined April 20

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CRAHI

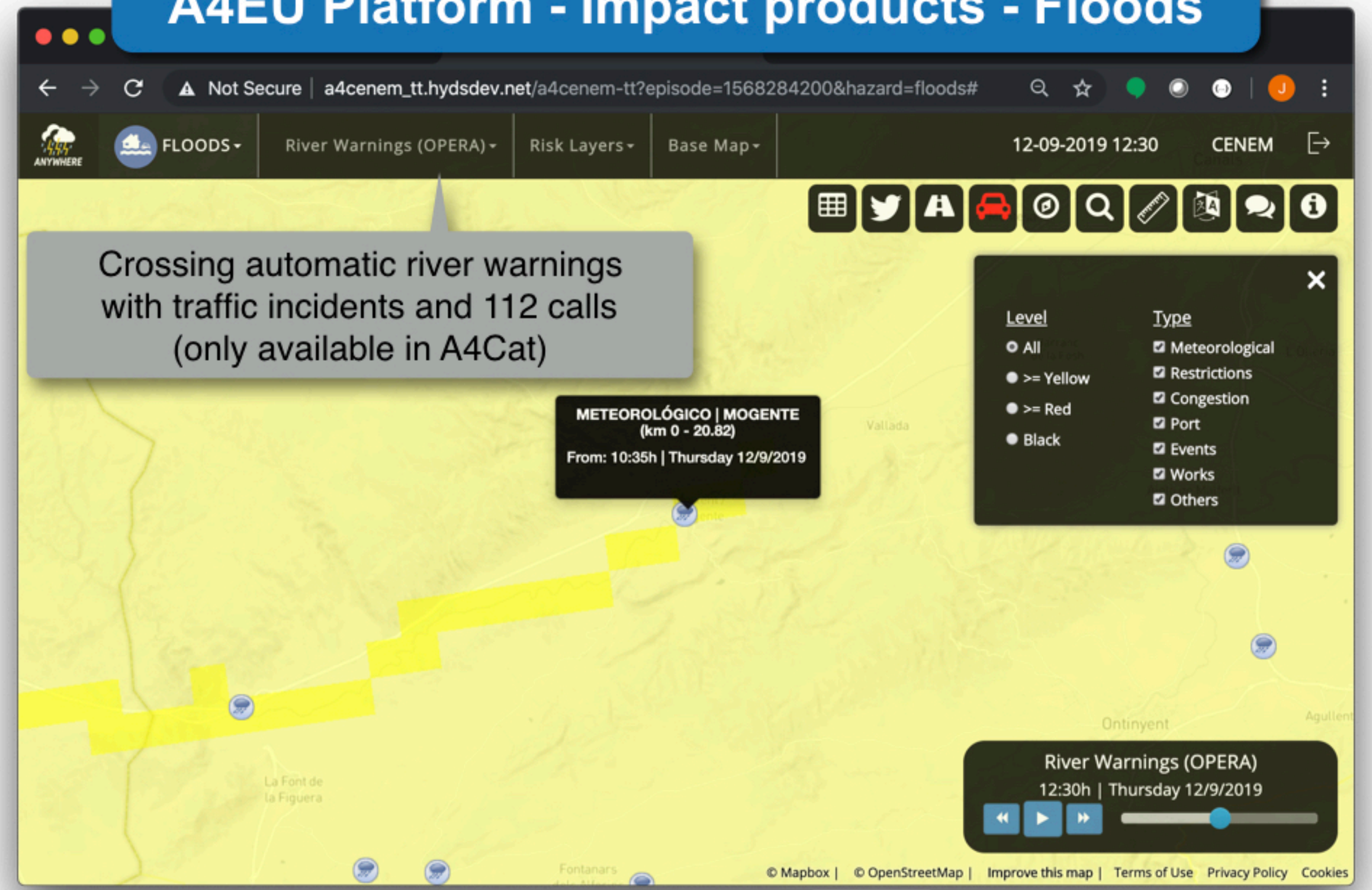
UPC

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A4EU Platform - Impact products - Floods

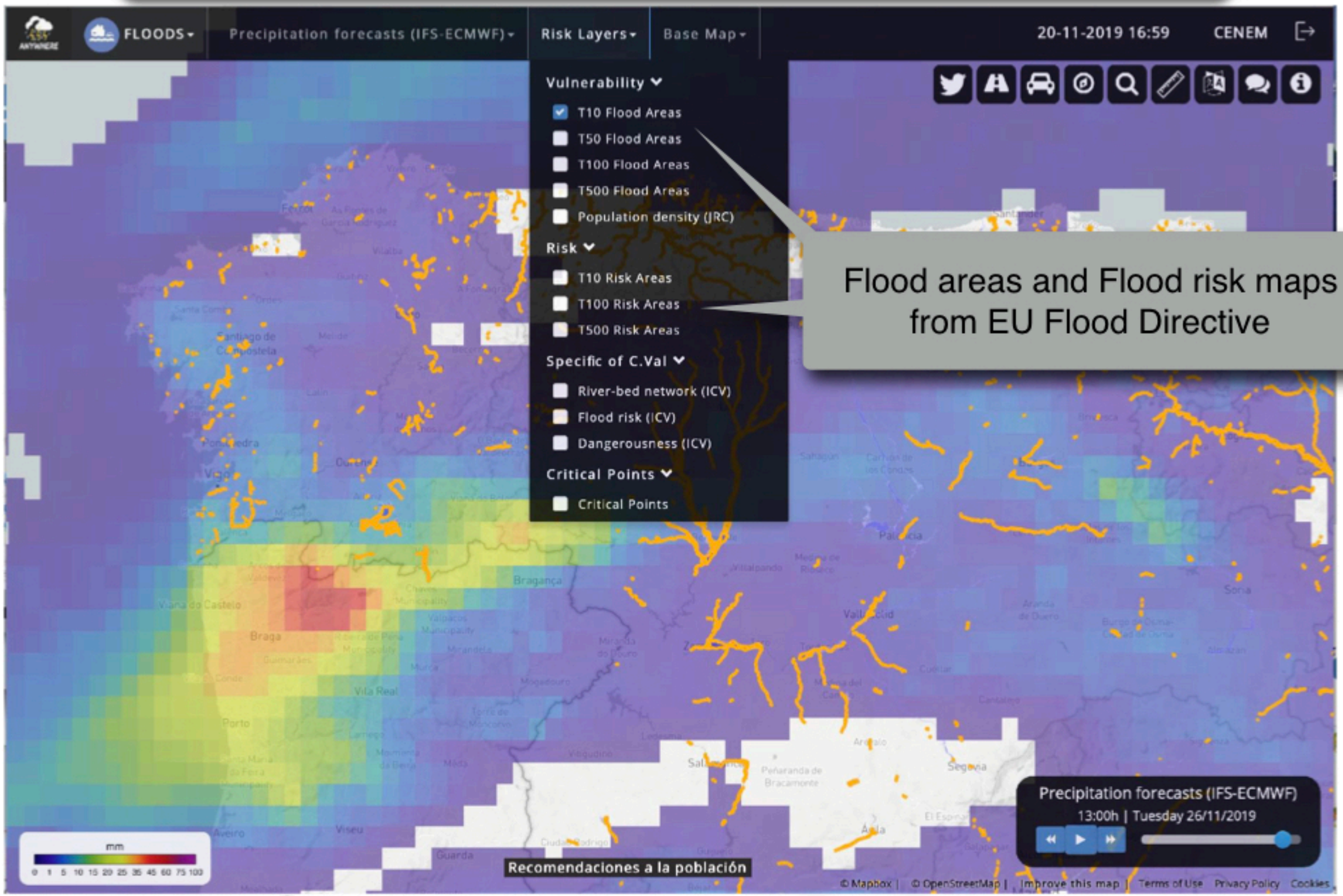


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CRAHI UPC IUAJO

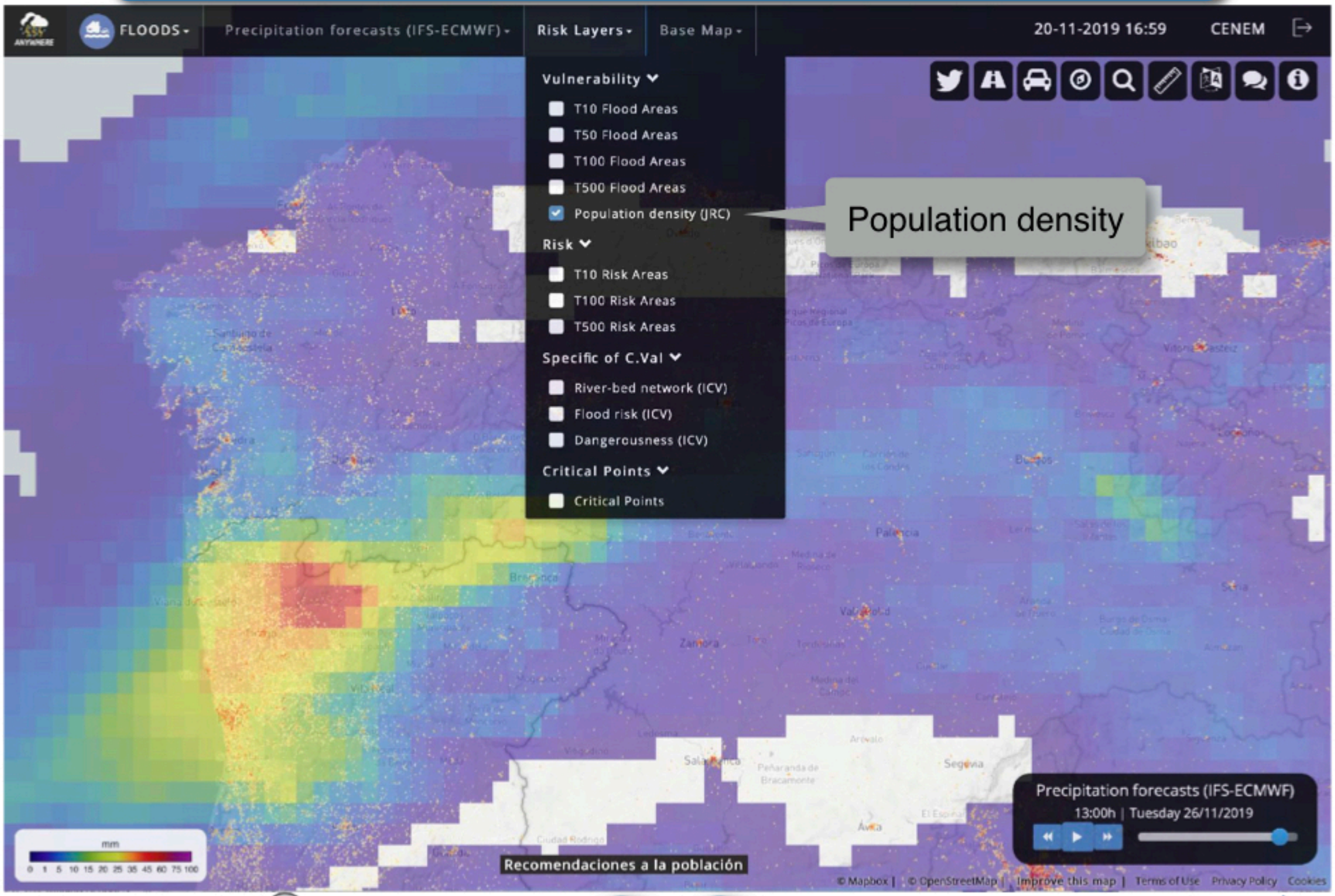
hyds

A4EU Platform - Impact products - Floods



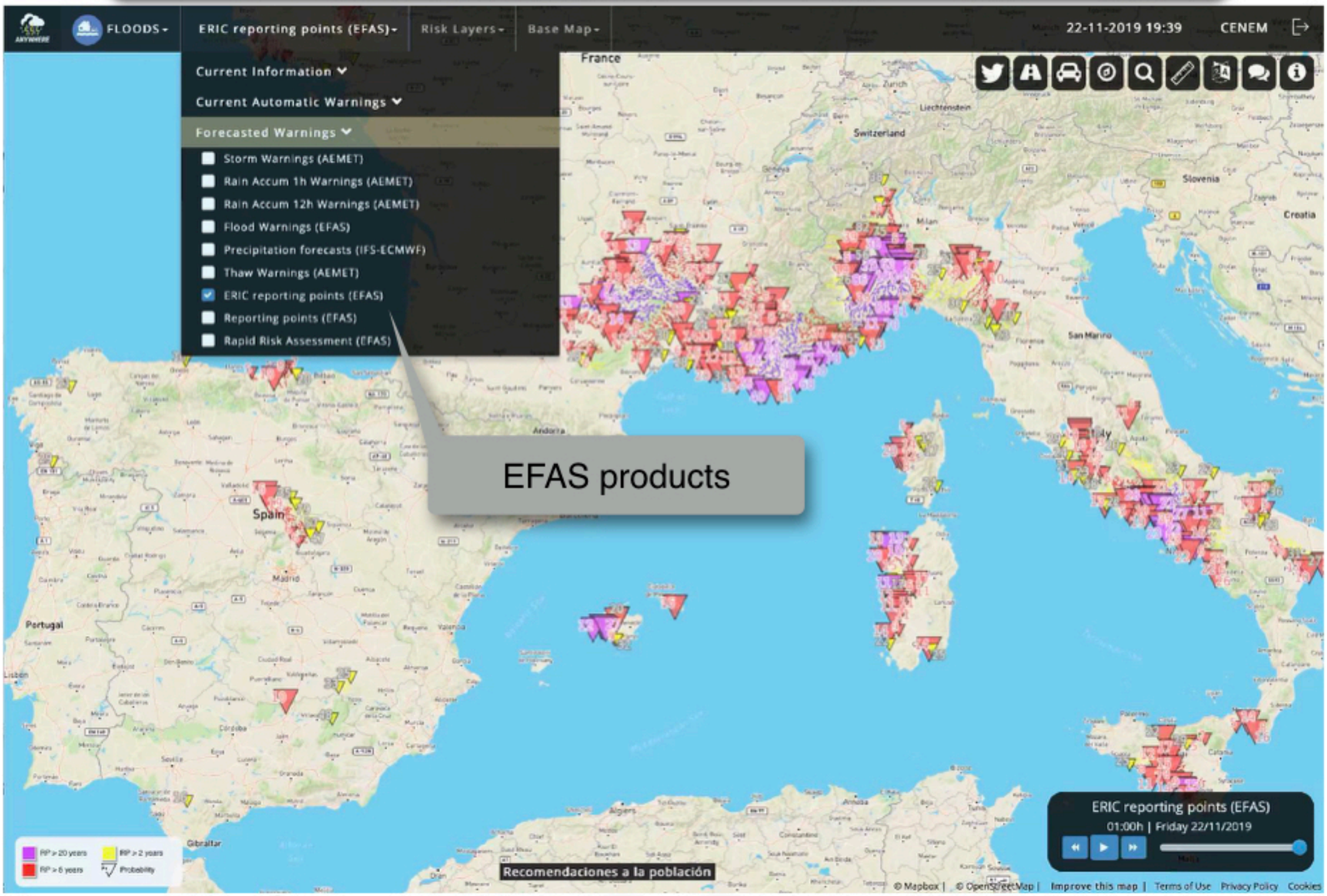
ANYWHERE ECMWF CRAHI UPC hydS

A4EU Platform - Impact products - Floods

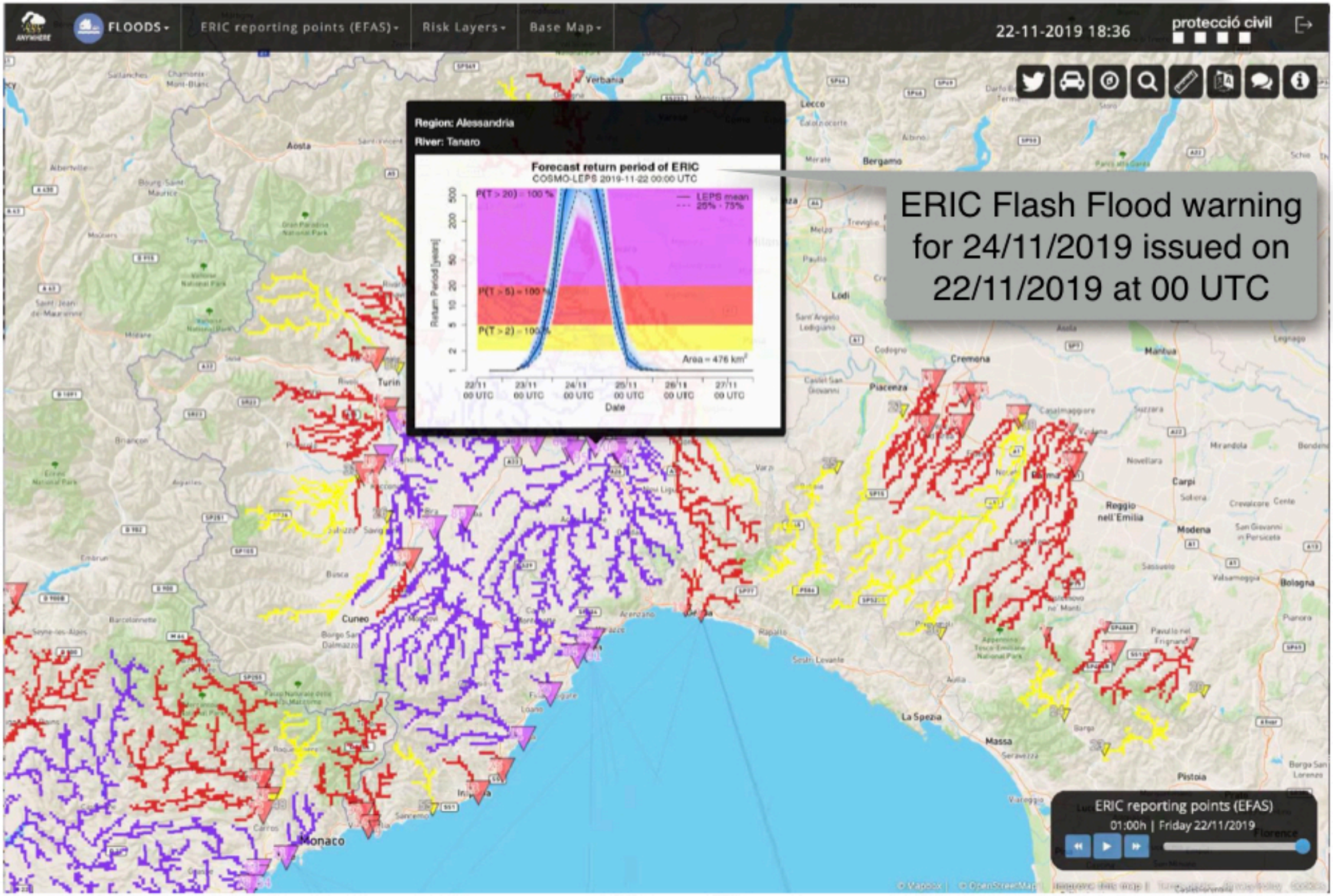


ANYWHERE ECMWF CRAHI UPC JRC EUROPEAN COMMISSION hydS

A4EU Platform - Impact products - Floods



A4EU Platform - Impact products - Floods

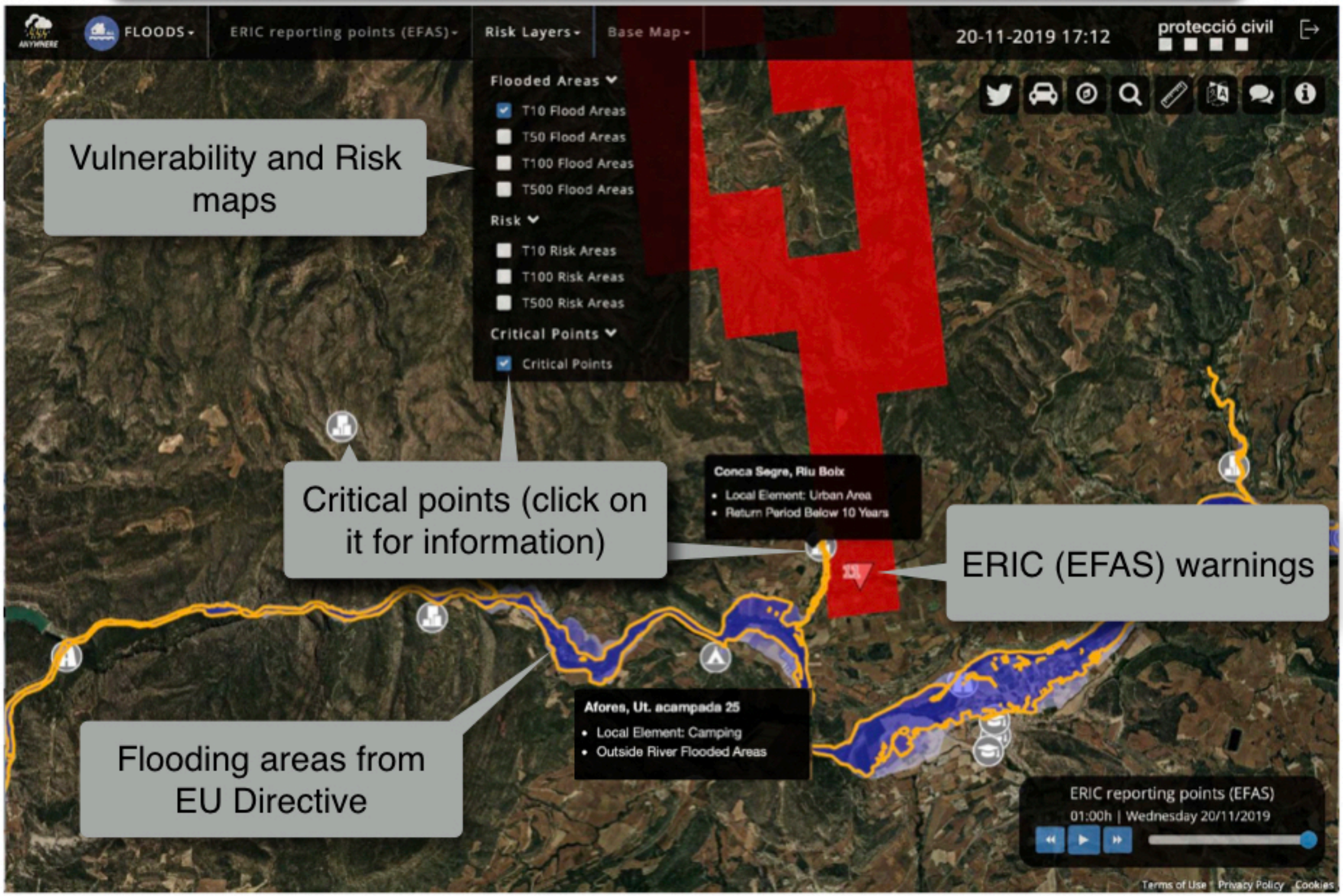


ANYWHERE

CRAHI UPC JRC EUROPEAN COMMISSION

hydsolutions

A4EU Platform - Impact products - Floods

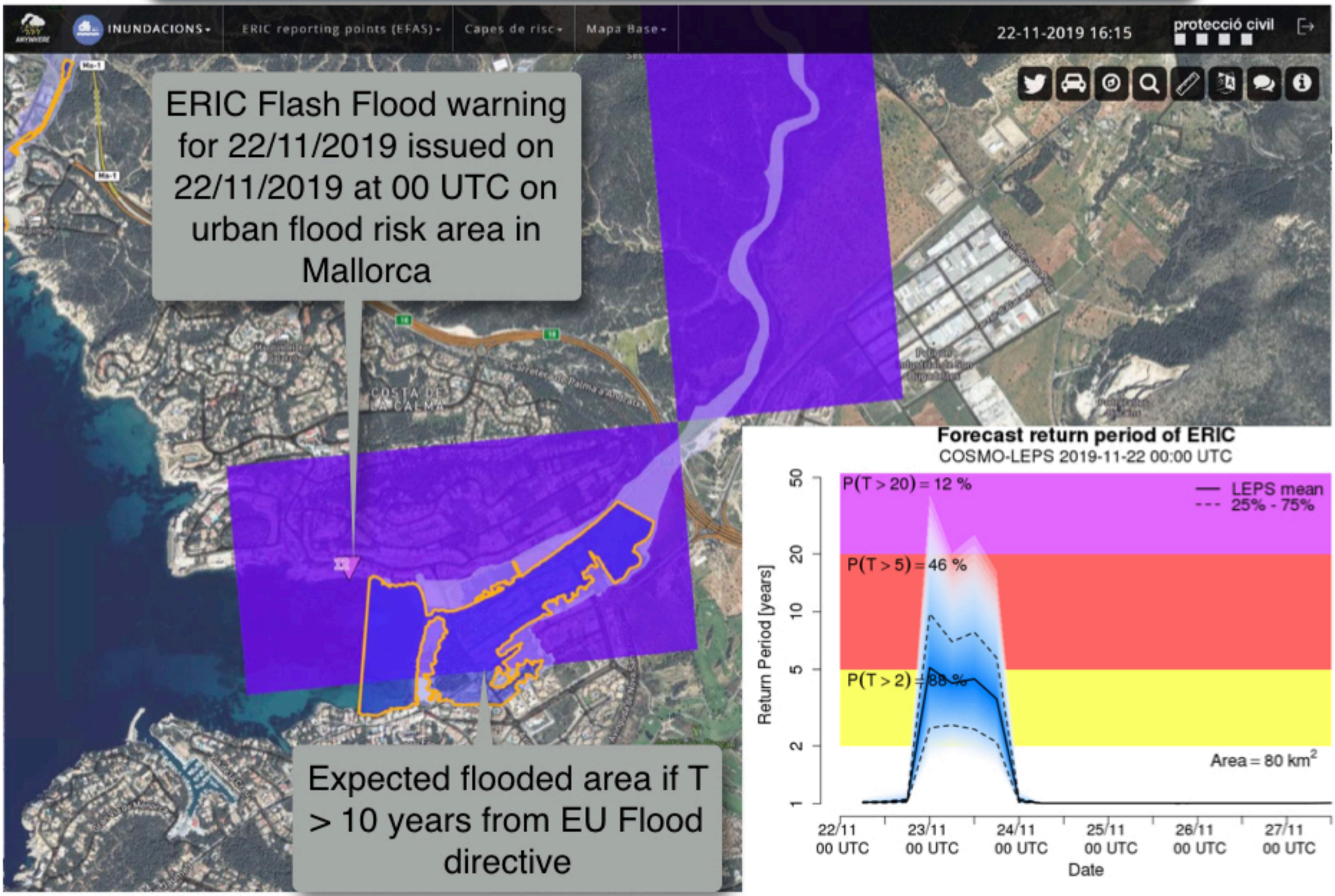


ANYWHERE

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A4EU Platform - Impact products



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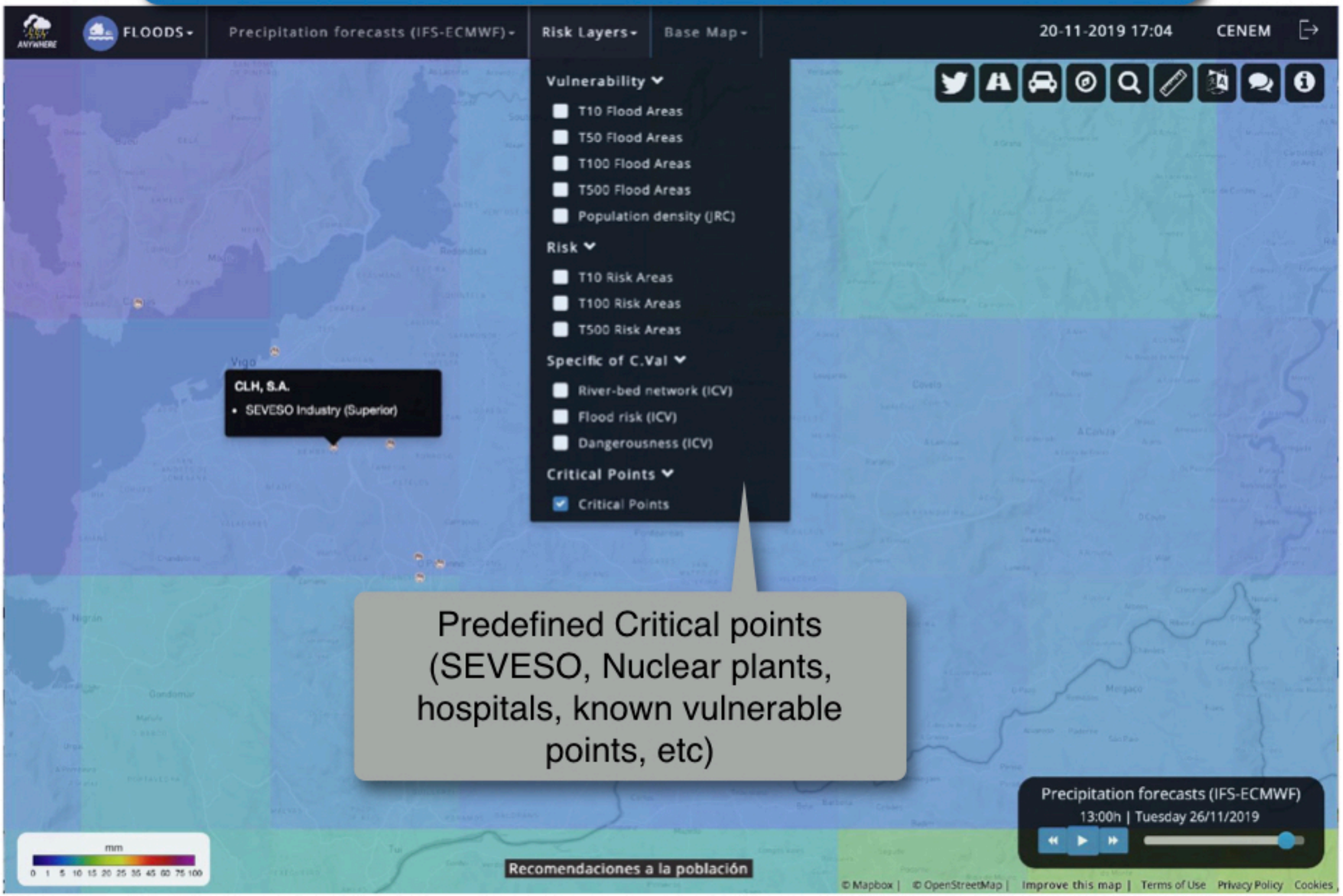
CRAHI

UPC

JRC
EUROPEAN COMMISSION

hydS

A4EU Platform - Impact products

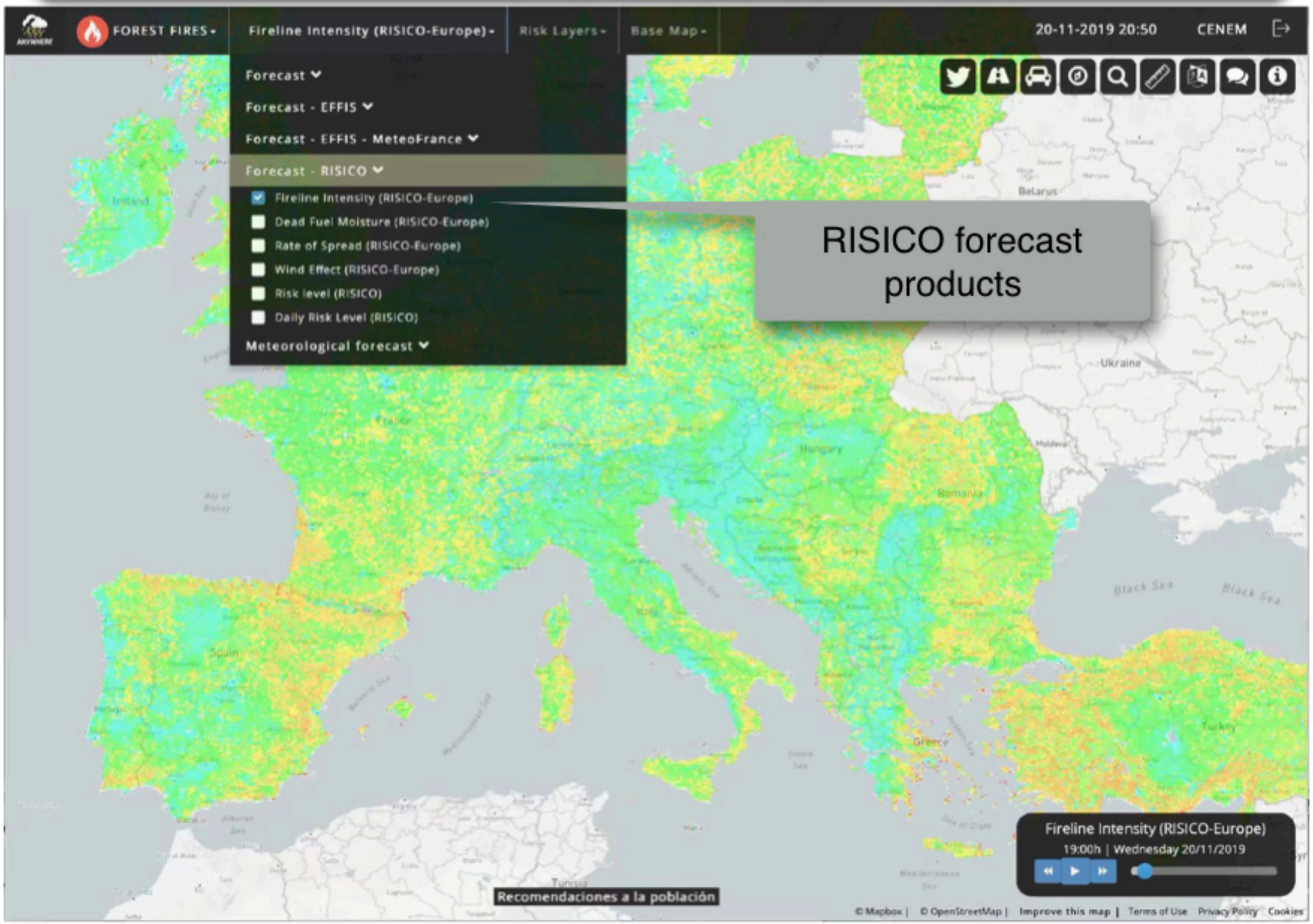


ANYWHERE

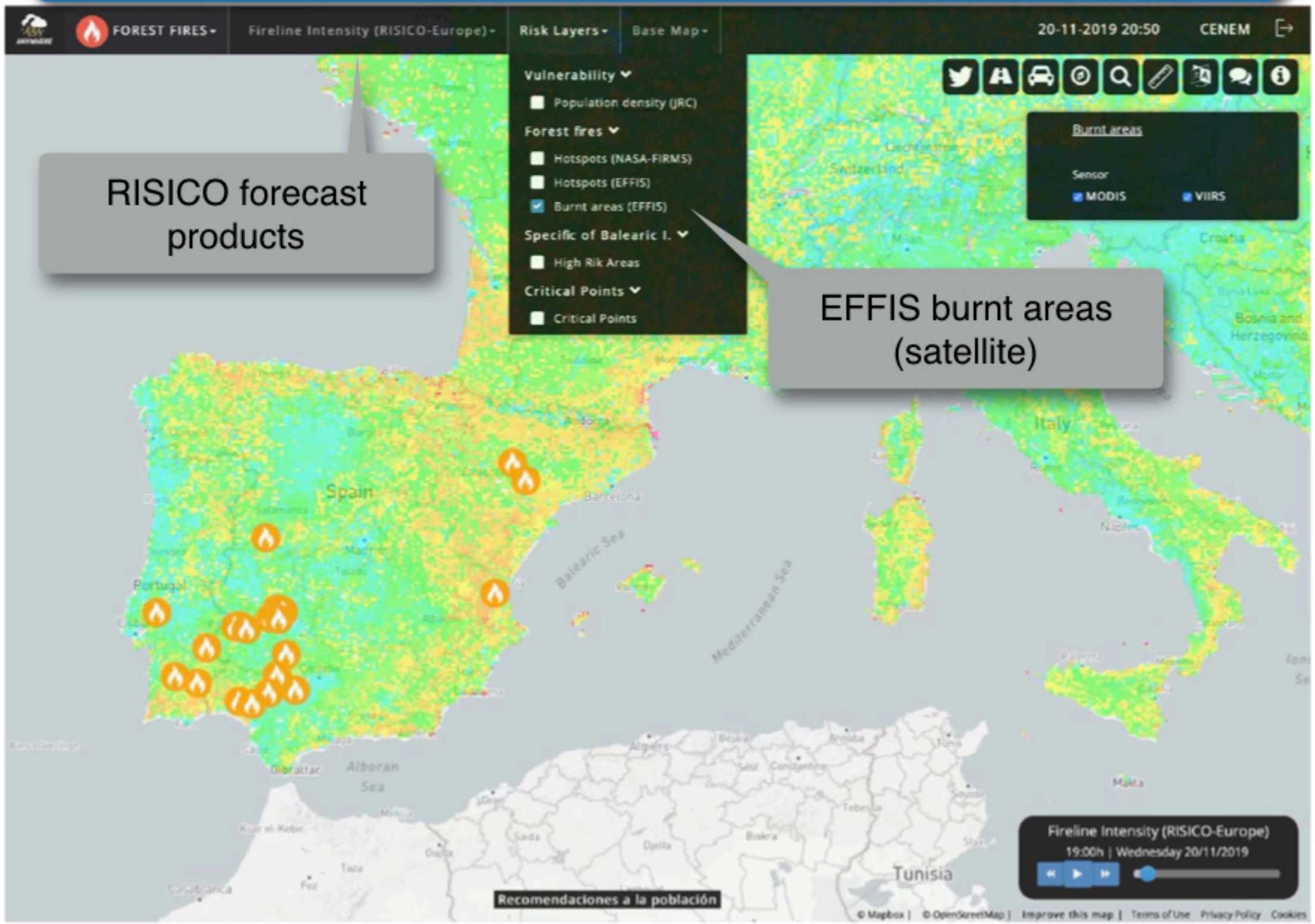
CRAHI UPC

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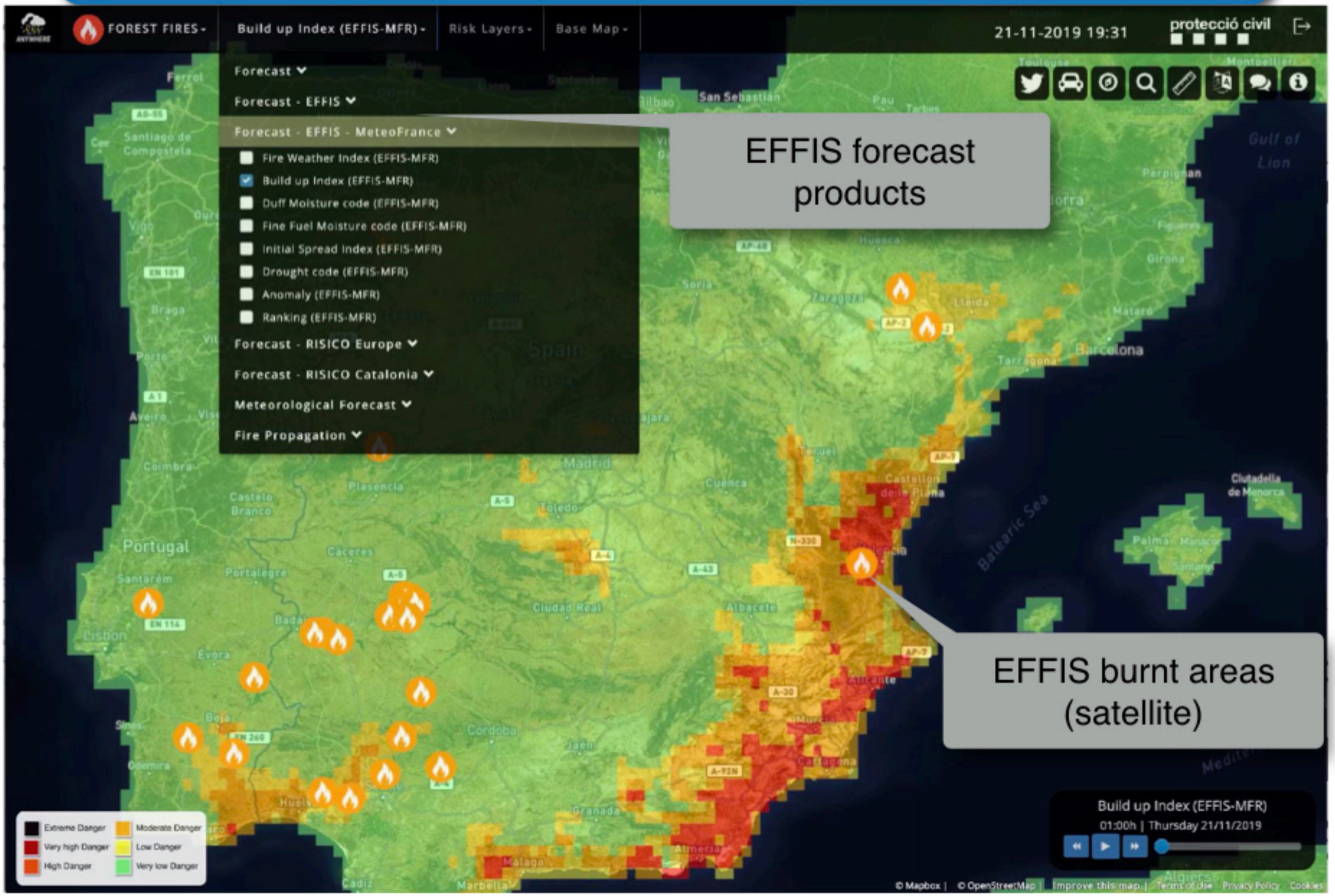
A4EU Platform - Impact products - Forest Fires



A4EU Platform - Impact products - Forest Fires



A4EU Platform - Impact products - Forest Fires

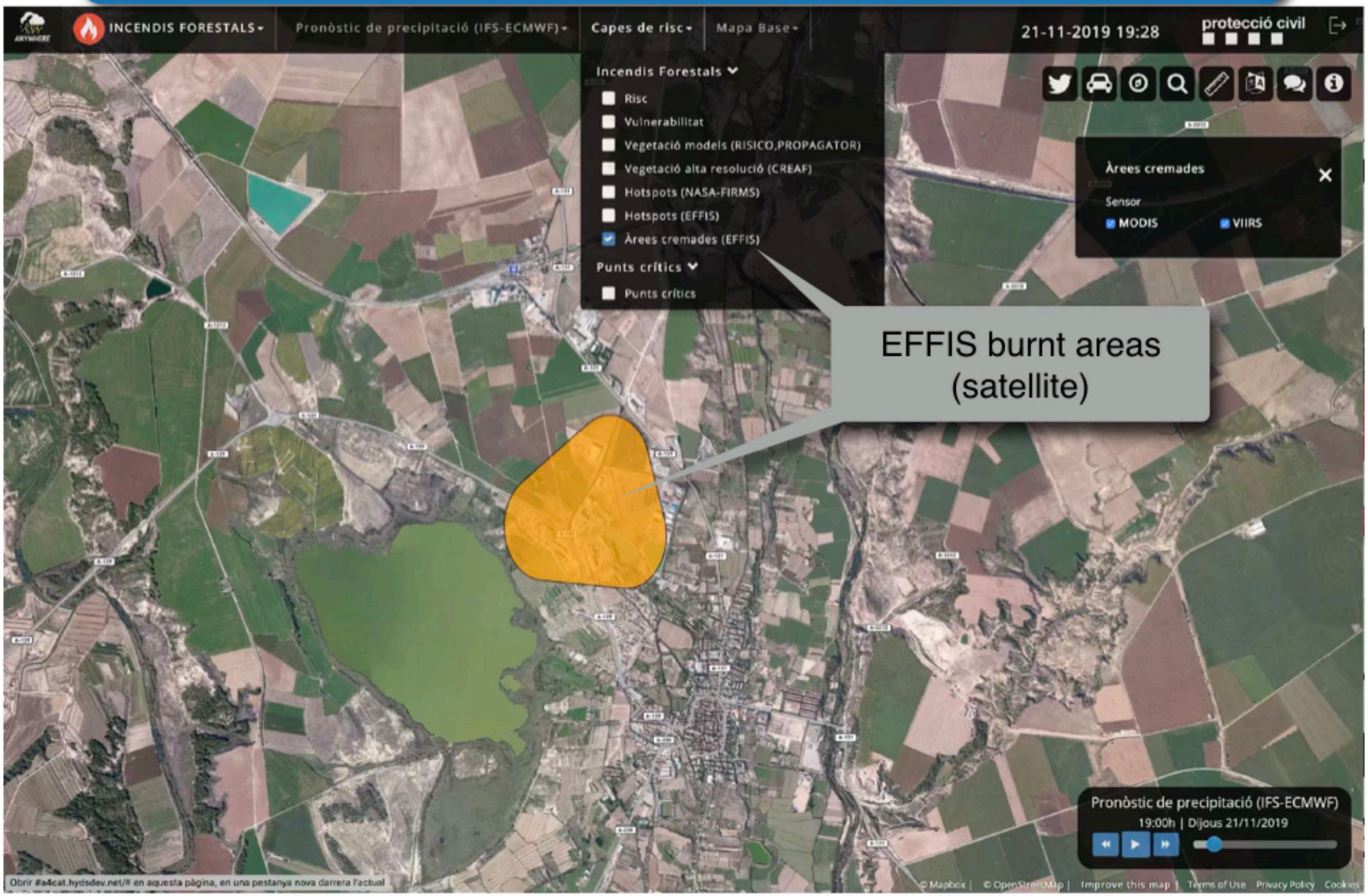


ANYWHERE

JRC EUROPEAN COMMISSION

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A4EU Platform - Impact products - Forest Fires

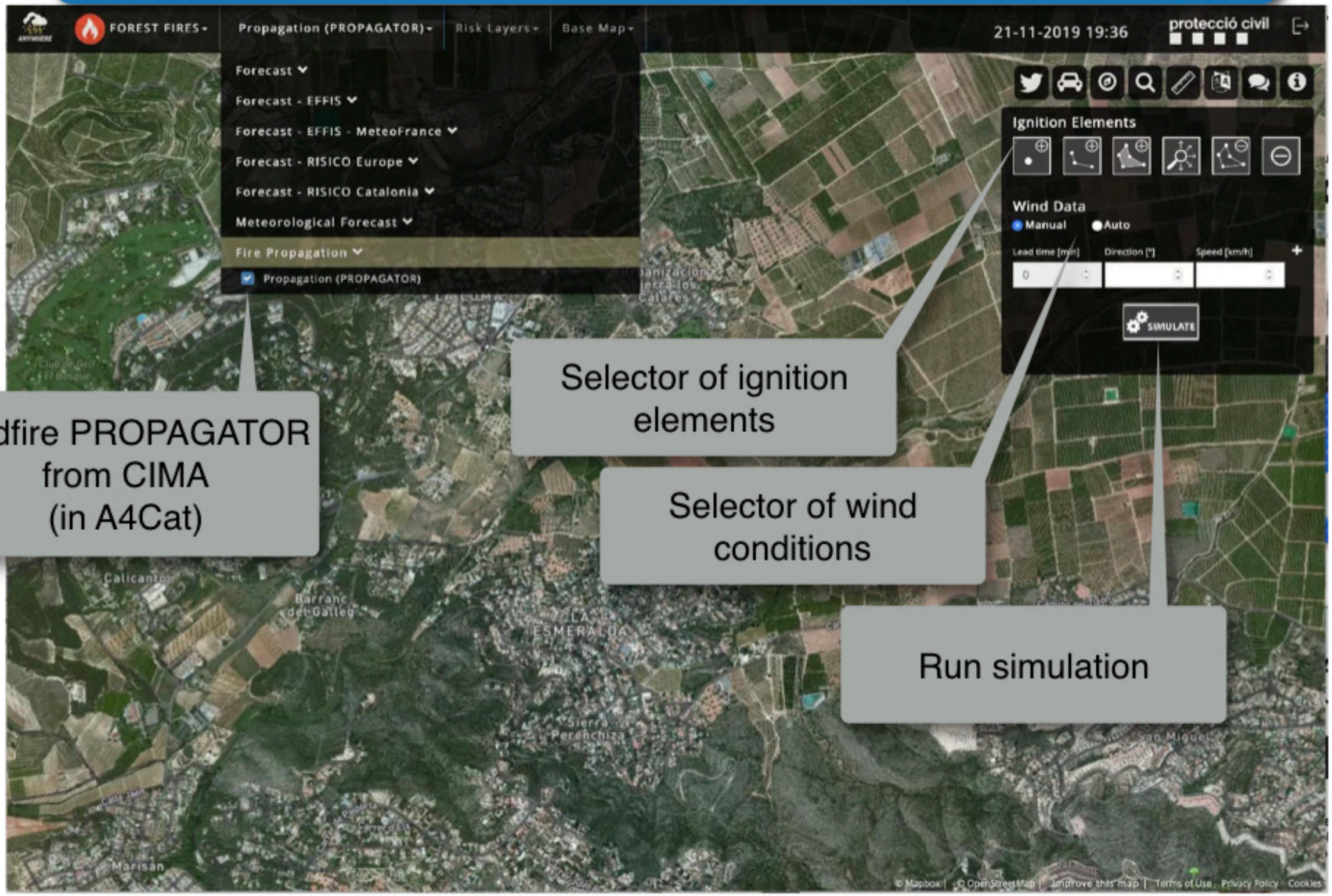


ANYWHERE

JRC
EUROPEAN COMMISSION

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A4EU Platform - Impact products - Forest Fires

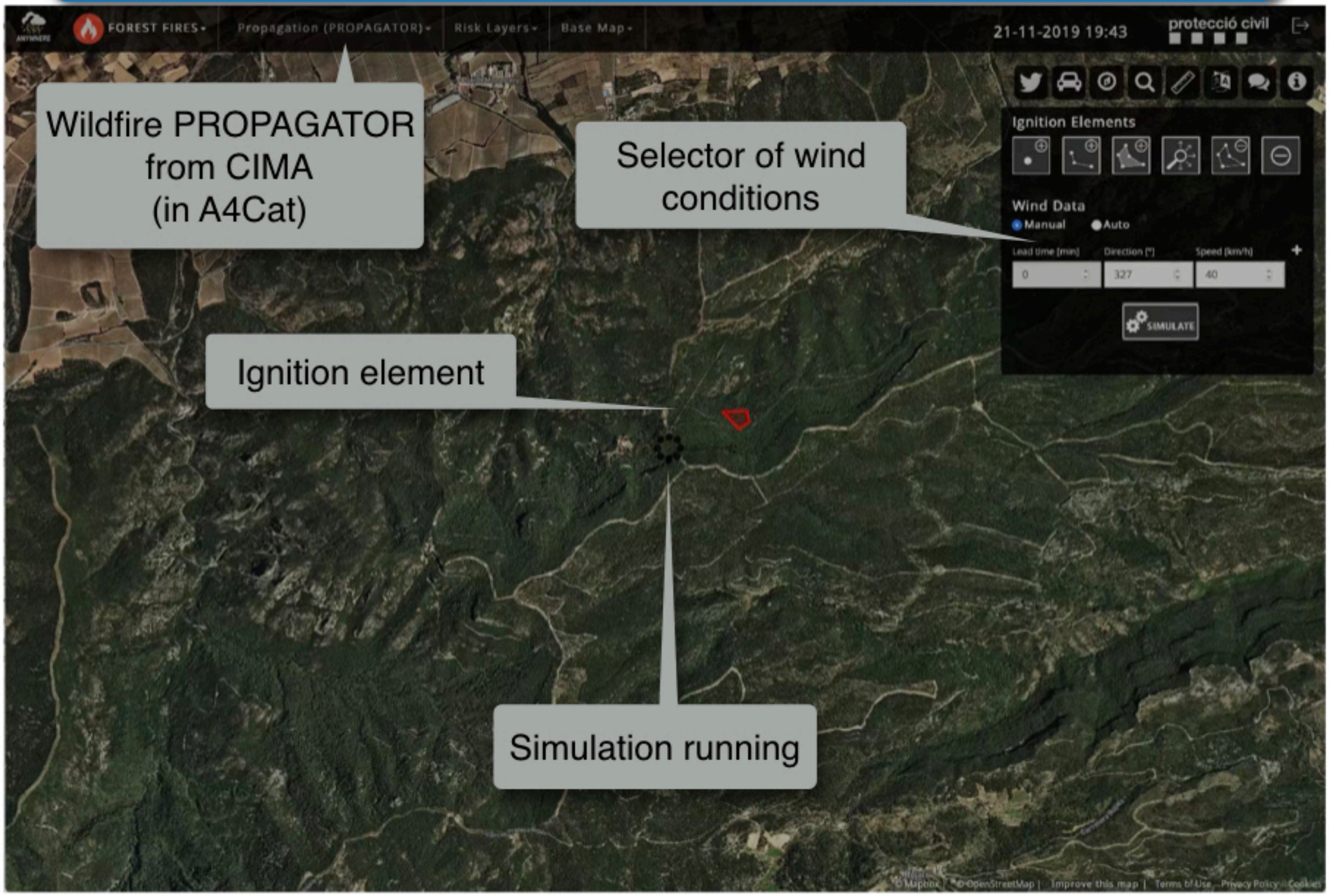


ANYWHERE

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hydS

A4EU Platform - Impact products - Forest Fires

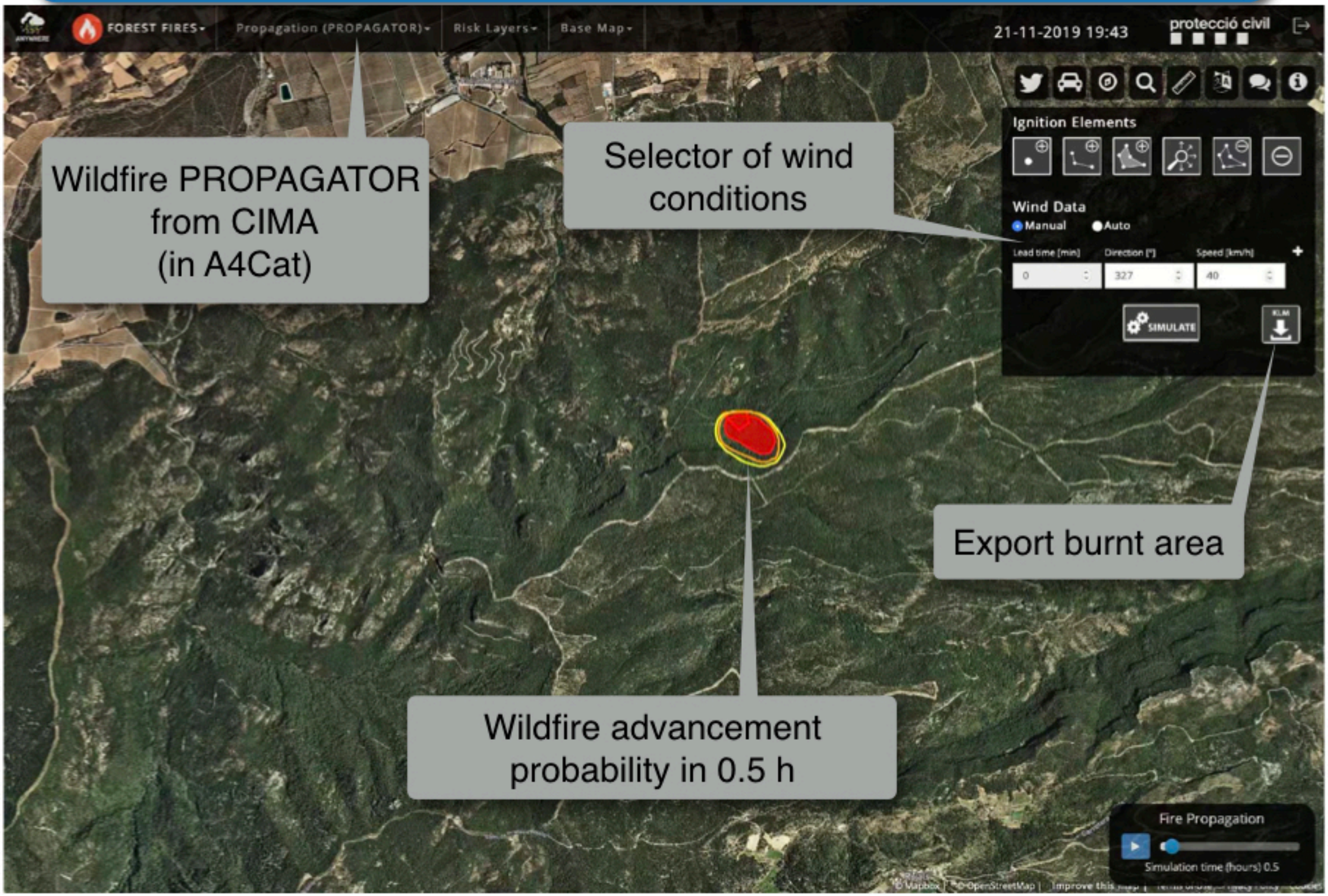


ANYWHERE

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hydS

A4EU Platform - Impact products - Forest Fires

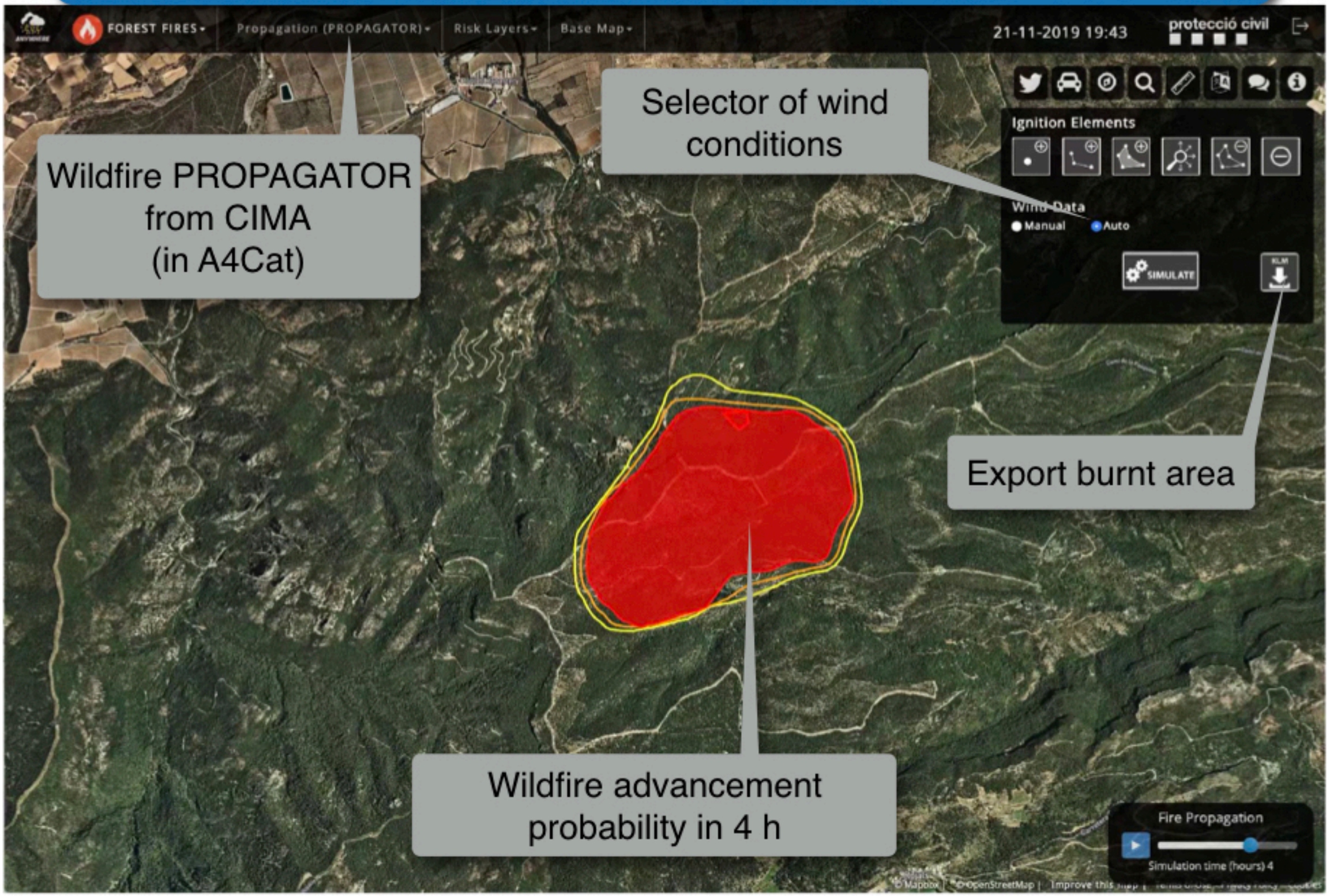


ANYWHERE

cima RESEARCH FOUNDATION

hydS

A4EU Platform - Impact products - Forest Fires

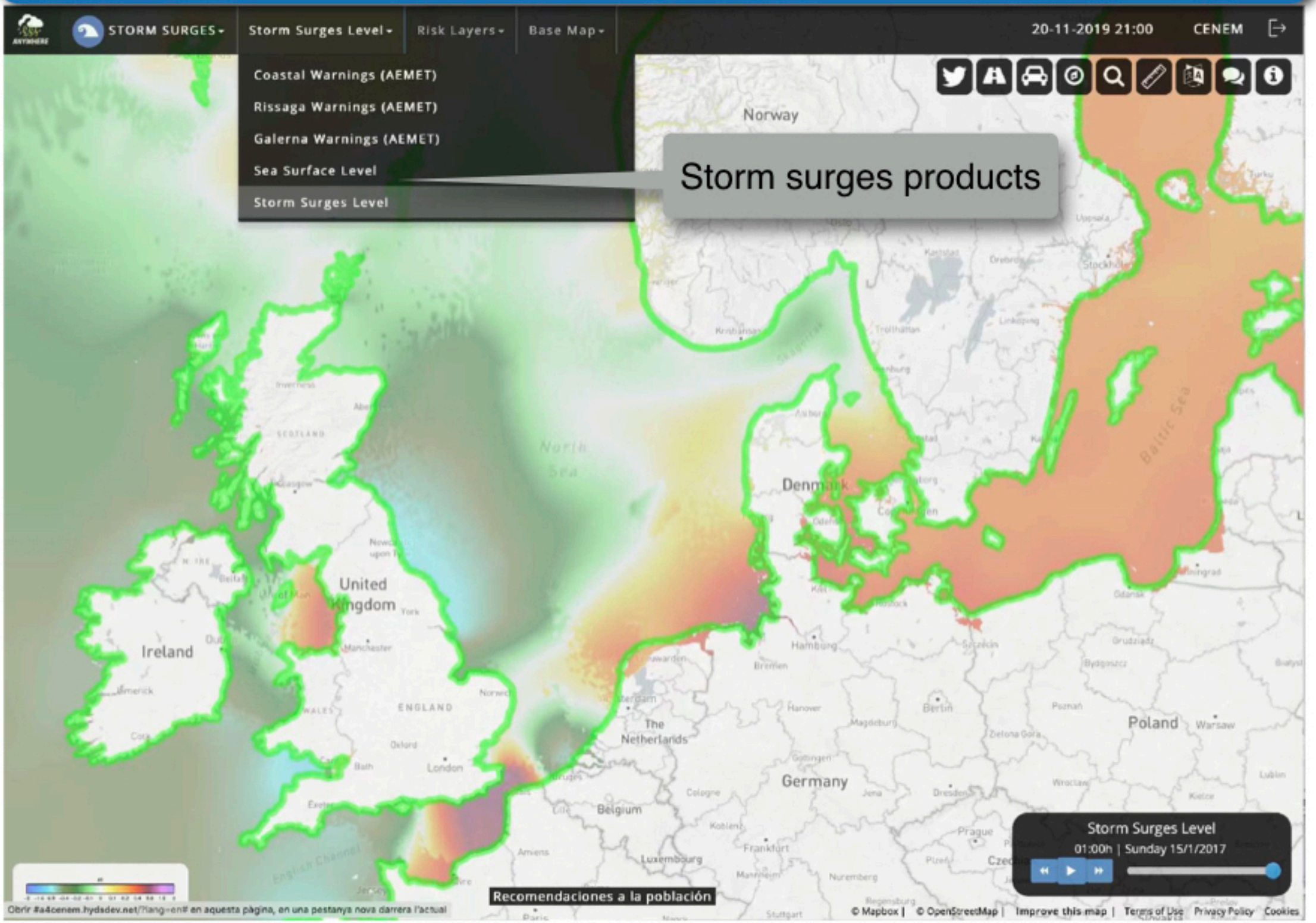


ANYWHERE

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hydS

A4EU Platform - Impact products - Storm surges

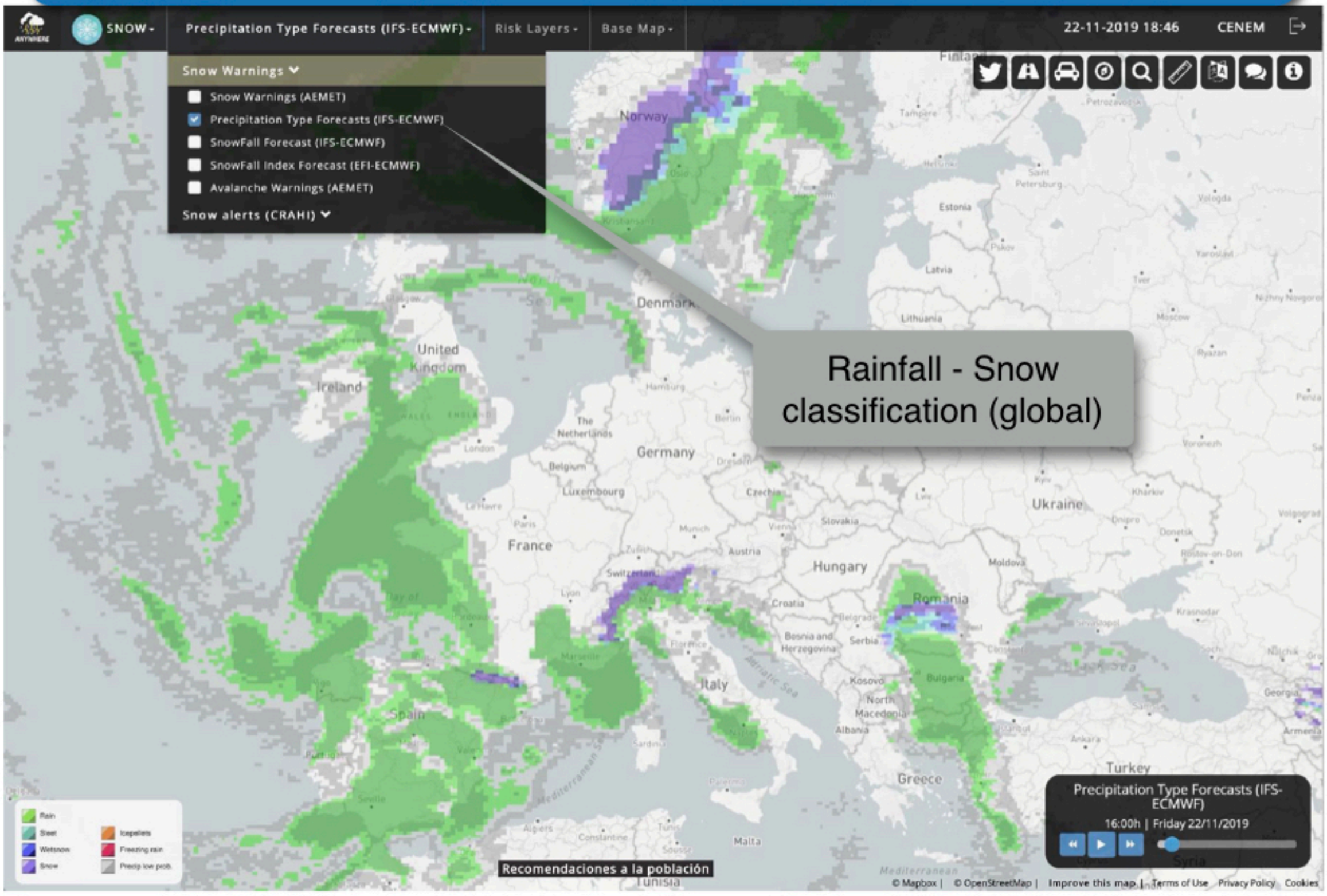


ANYWHERE

CFR
CONSORZIO FUTURO IN RICERCA

hyds

A4EU Platform - Impact products - Snow storms

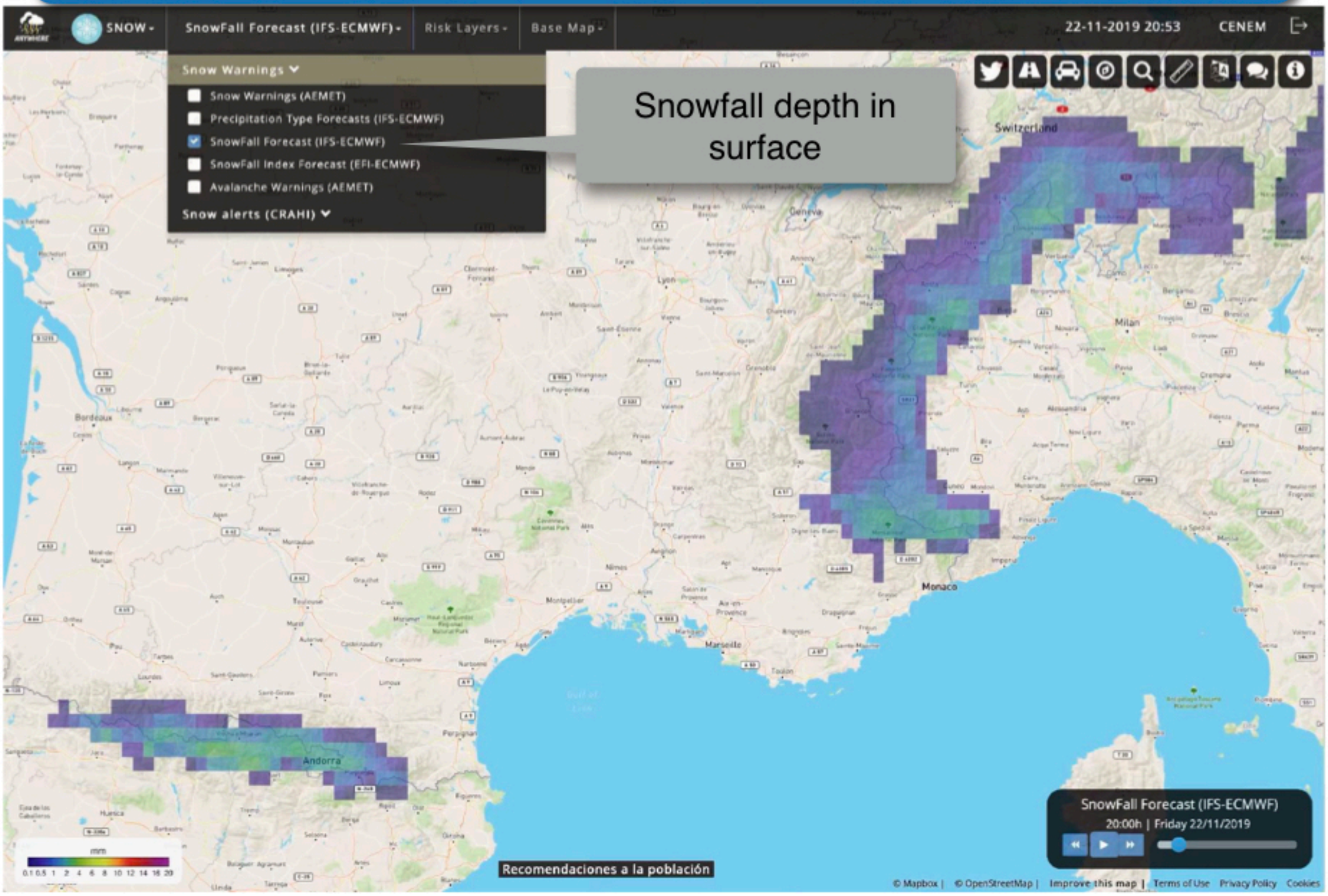


ANYWHERE

ECMWF

hydS

A4EU Platform - Impact products - Snow storms

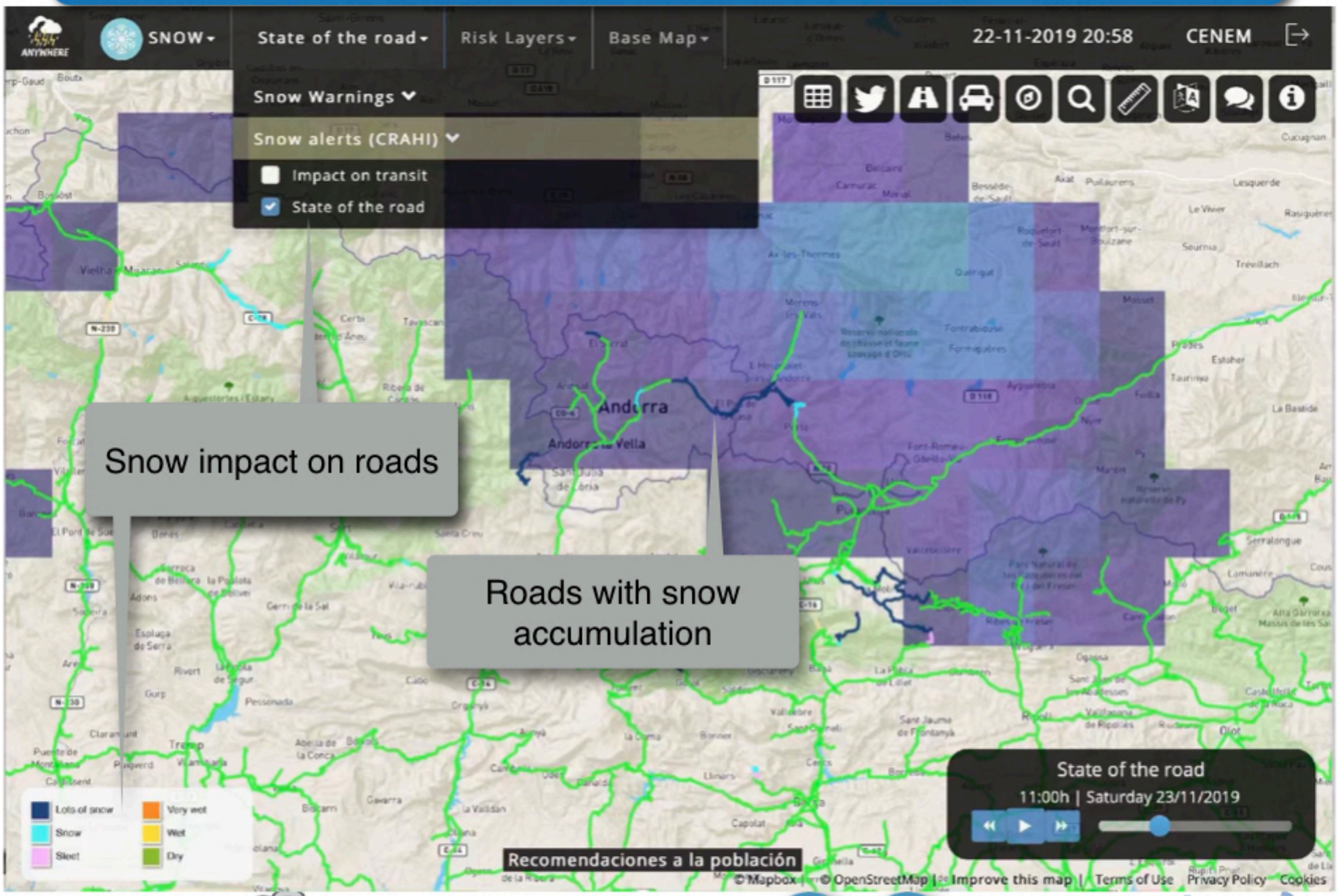


ANYWHERE

ECMWF

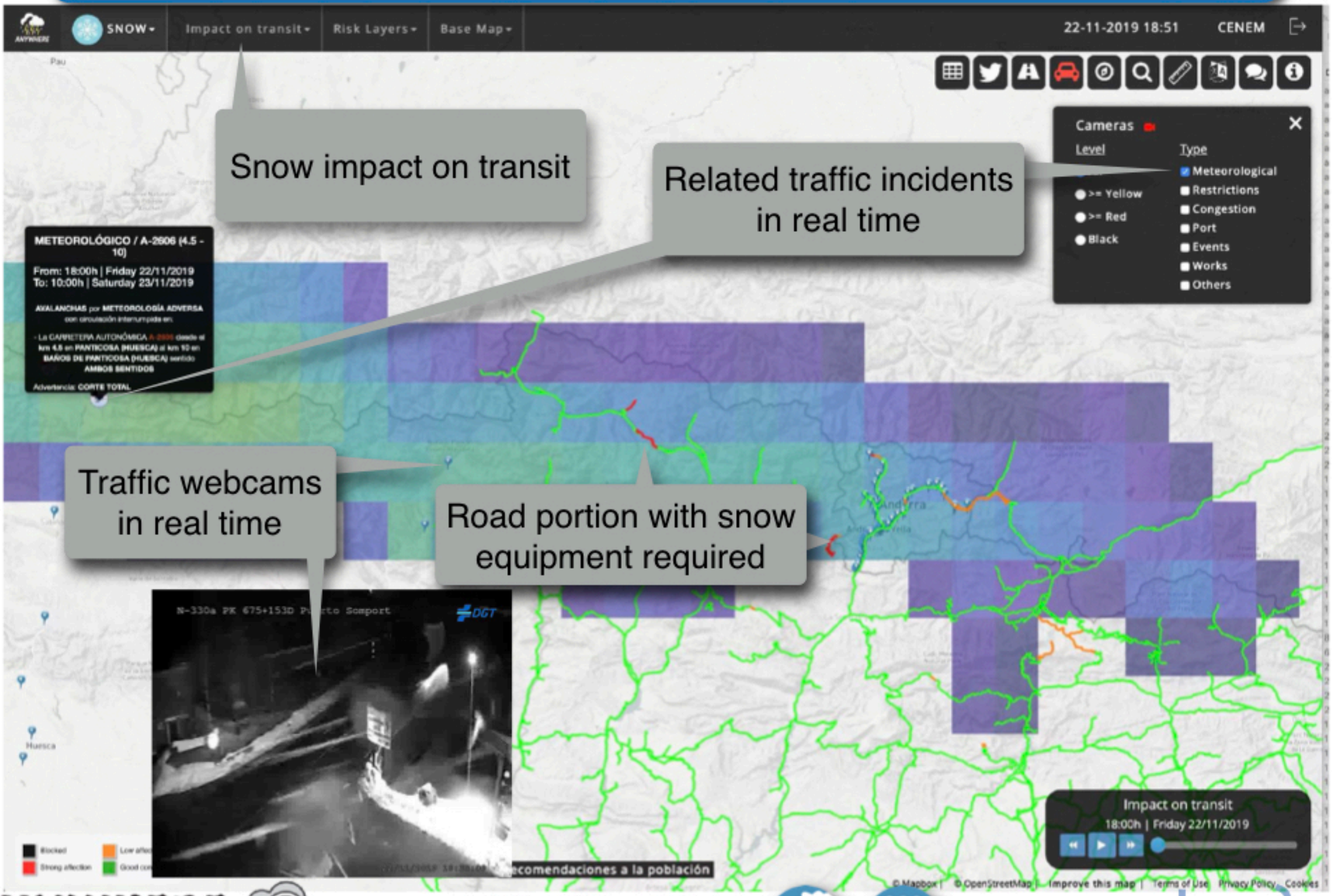
hydS

A4EU Platform - Impact products - Snow storms

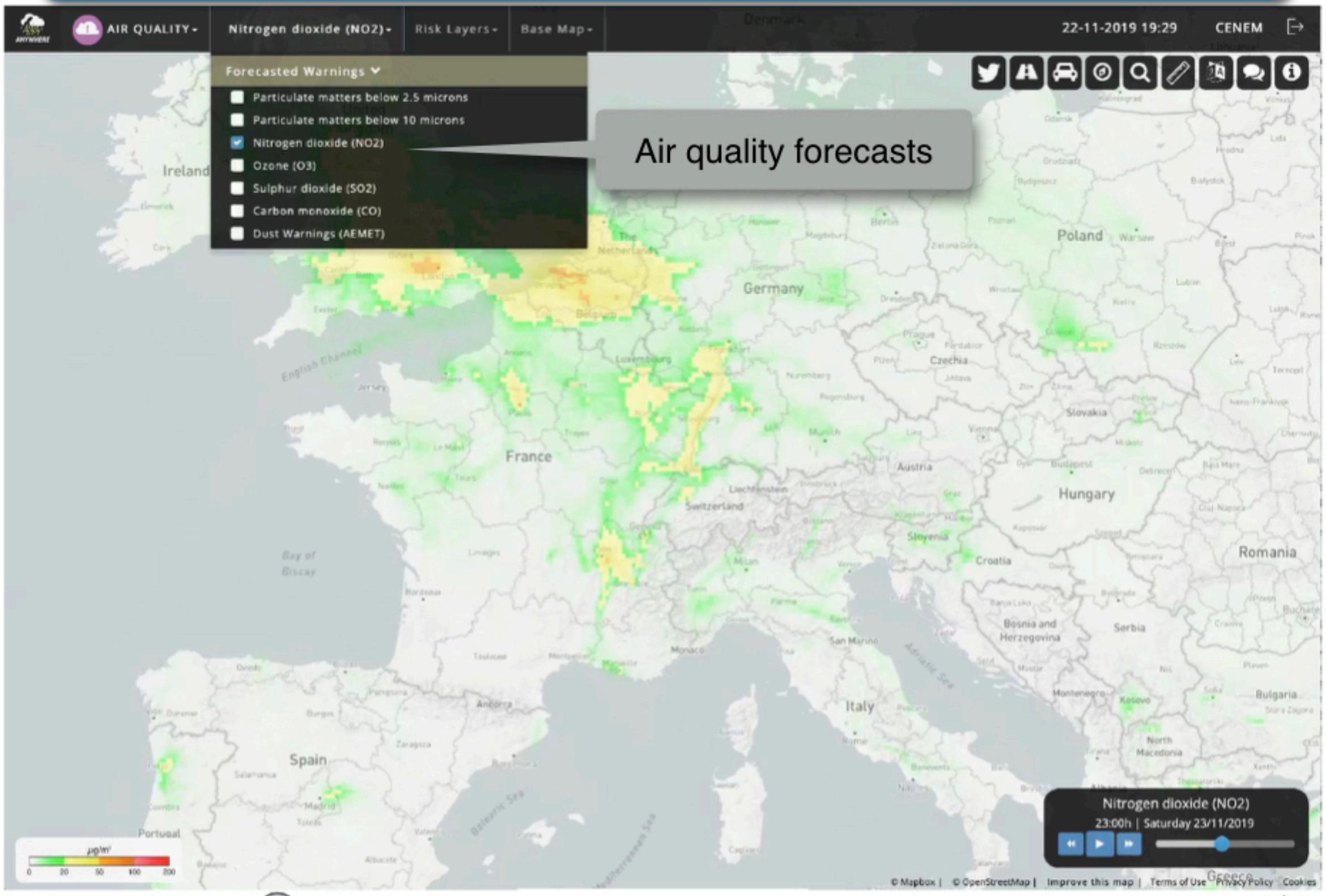


ANYWHERE ECMWF CRAHI UPC hydS

A4EU Platform - Impact products - Snow storms



A4EU Platform - Impact products - Air quality

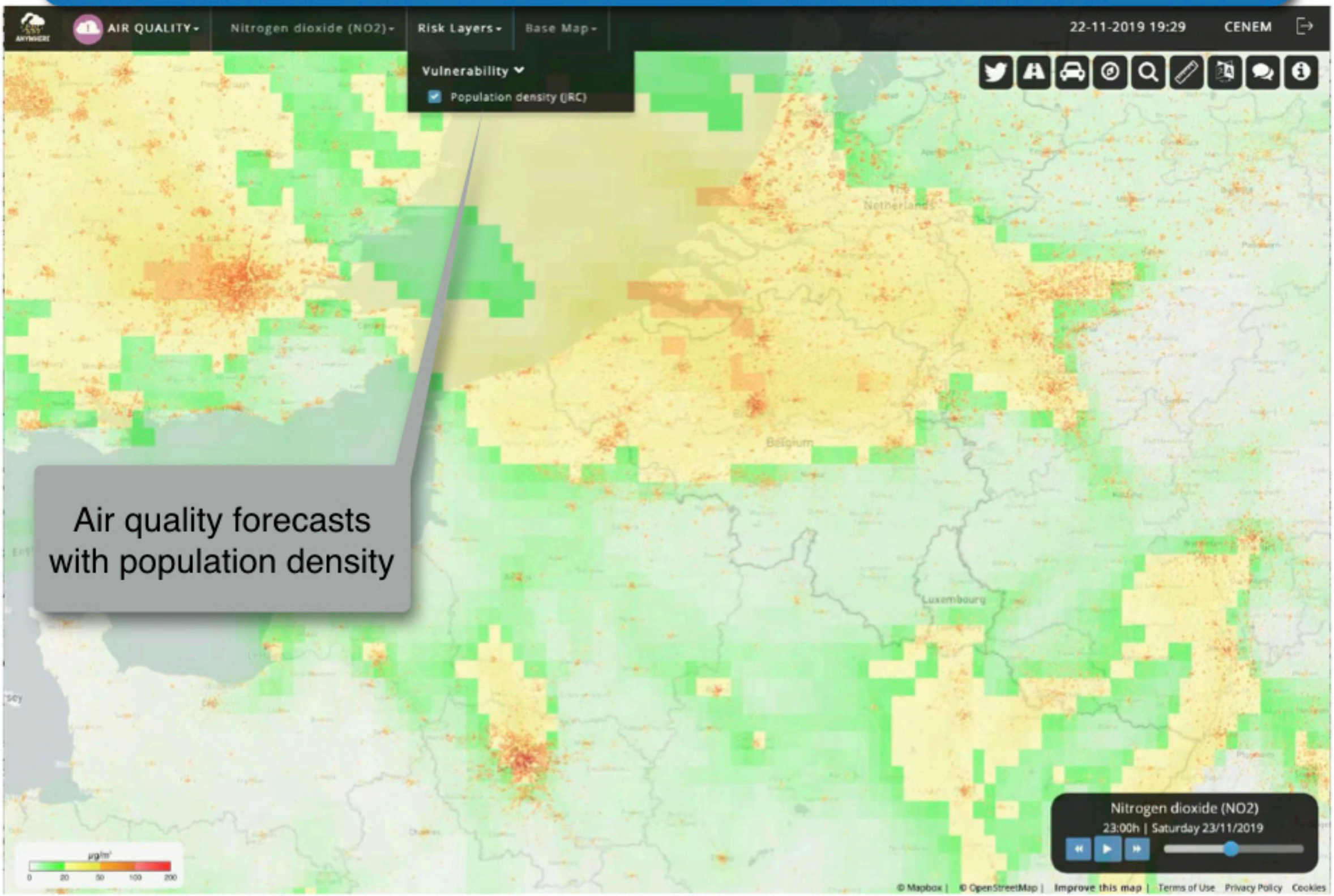


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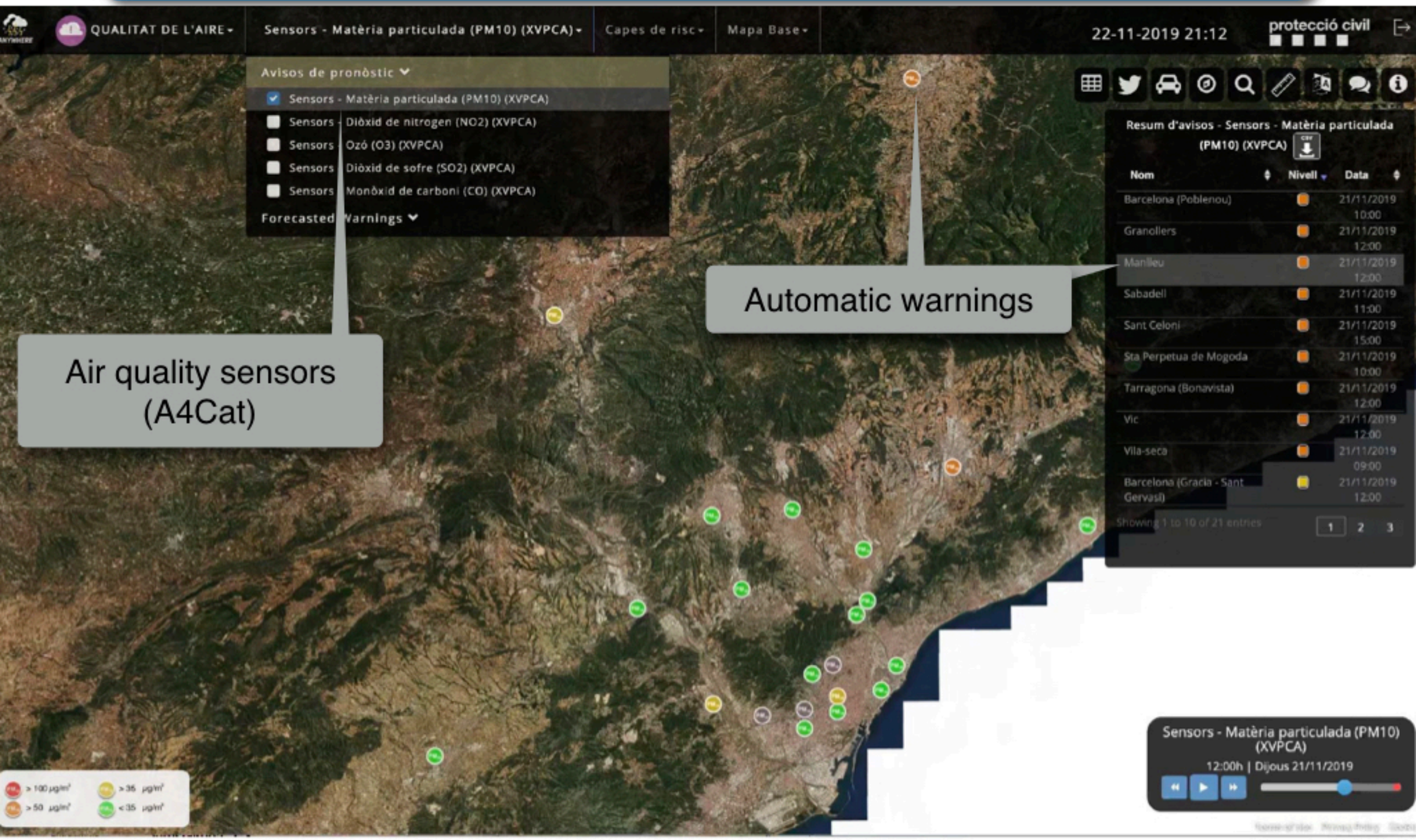
ECMWF

hydS

A4EU Platform - Impact products - Air quality



A4EU Platform - Impact products - Air quality

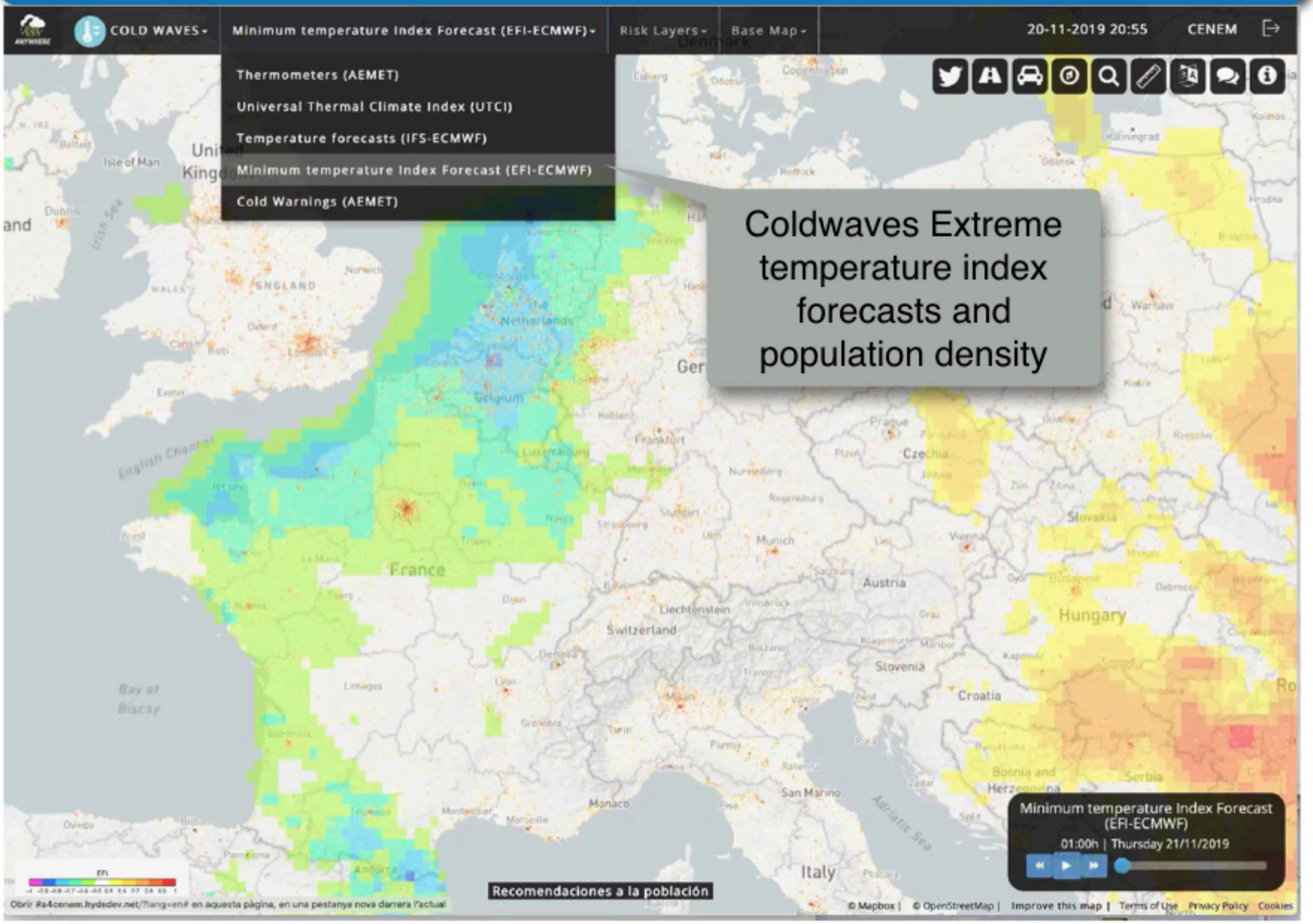


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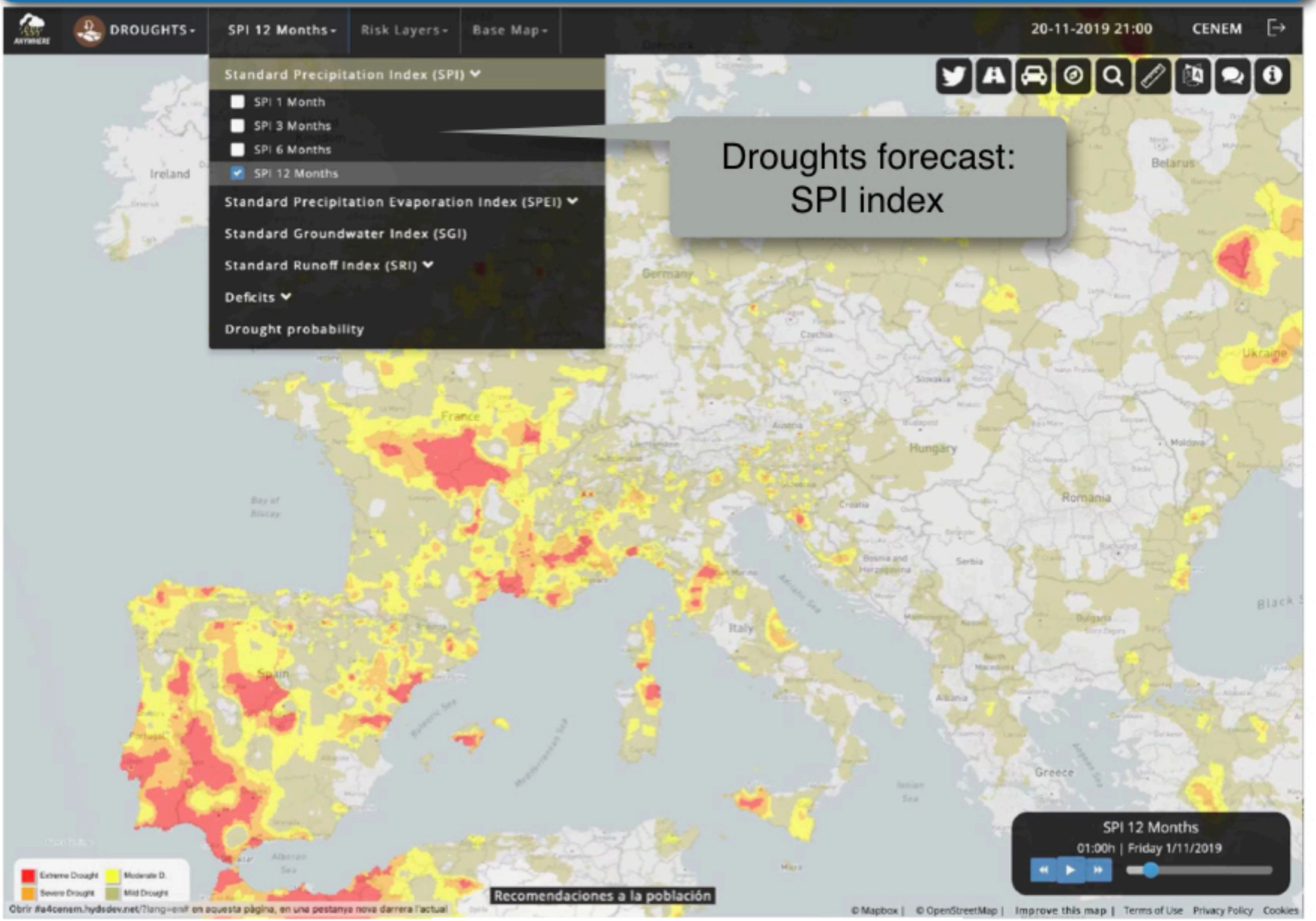
ECMWF

hydS

A4EU Platform - Impact products - Coldwaves



A4EU Platform - Impact products - Droughts

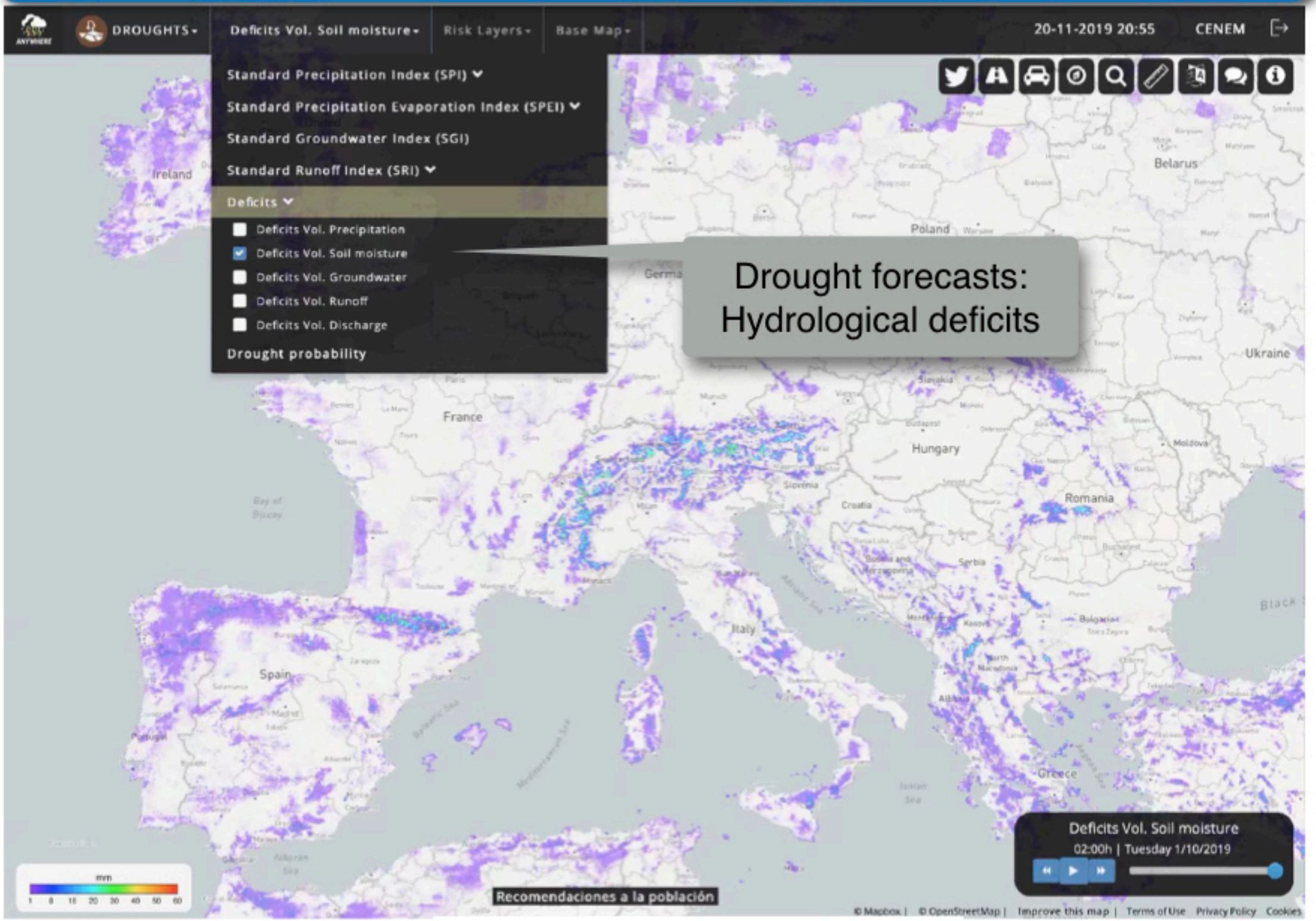


ANYWHERE

WAGENINGEN UR
For quality of life

hyds

A4EU Platform - Impact products - Droughts

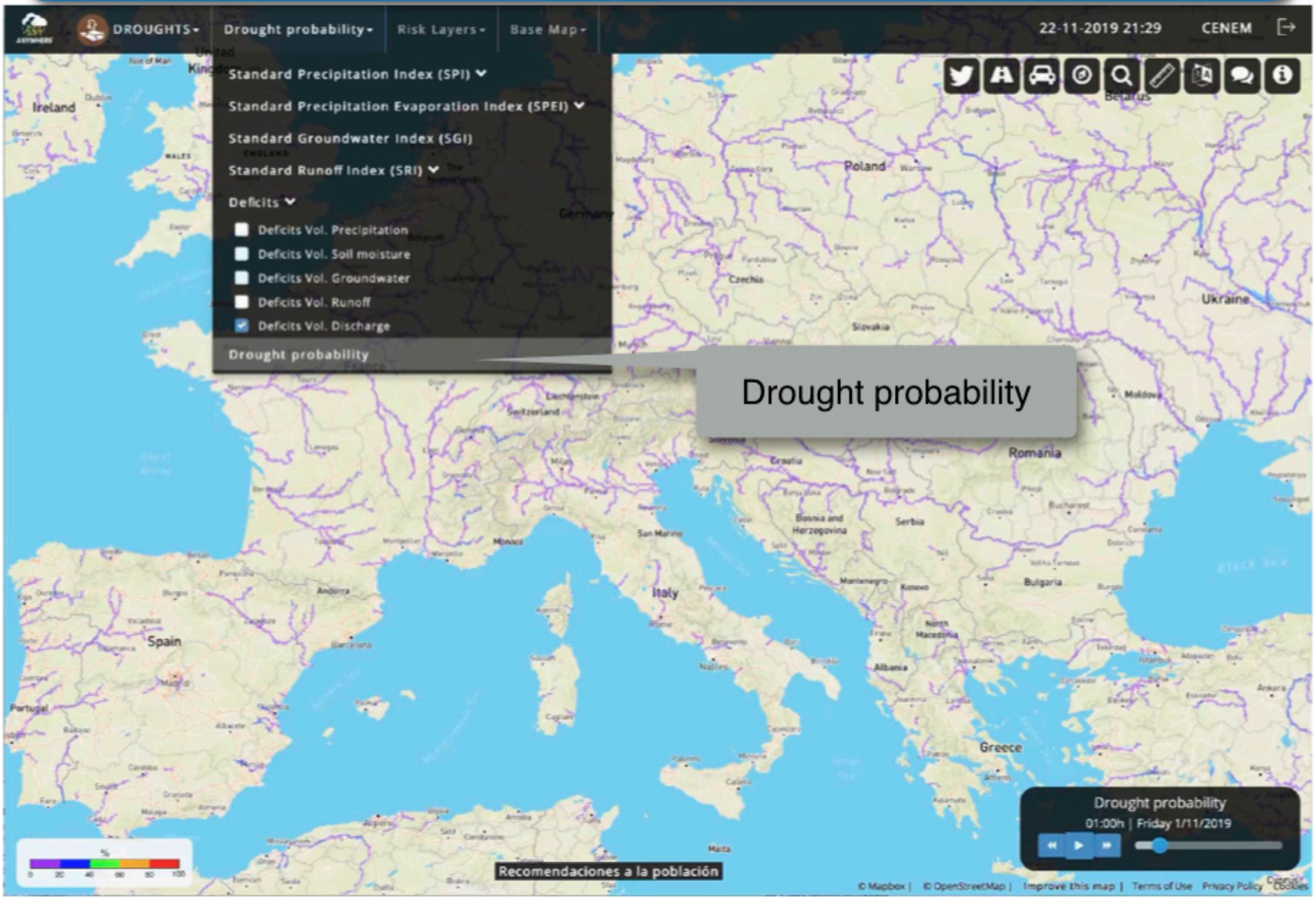


ANYWHERE

WAGENINGEN UR
For quality of life

hydS

A4EU Platform - Impact products - Droughts



ANYWHERE

WAGENINGEN UR
For quality of life

hydS

A4EU Platform - Impact products - Snow storms

Snowfall depth in surface

ANYWHERE

ECMWF

hyd