



## **FIREURISK - DEVELOPING A HOLISTIC, RISK-WISE STRATEGY FOR EUROPEAN WILDFIRE MANAGEMENT**

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RIA

### **D1.5 Geodatabases and Exposure & Vulnerability products in the GIS project platform**



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## D 1.5 – Geodatabases and Exposure & Vulnerability products in the GIS project platform



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<b>Work Package:</b>	WP1 – Fire risk assessment to improve prevention
<b>Task:</b>	Task 1.2 – Exposure & Vulnerability
<b>Dissemination Level:</b>	<input type="checkbox"/> PU: Public <input checked="" type="checkbox"/> CO: Confidential, only for members of the Consortium (including the Commission Services)



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## Quality Control

Type	Date	Reviewed by	Approved/Comment
Internal	01/06/2023	Vasileios Kazoukas	Suggested changing the Dissemination level
Internal	08/08/2023	Juli G. Pausas	Accepted with minor comments

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## 1. Introduction

This document contains a list of the datasets and databases that have been compiled during activity T1.2. The main goal of this task was to produce all exposure and vulnerability variables and models required for state-of-the-art risk assessment in current conditions, at different temporal (daily-D, seasonal-S) and spatial scales (from 1 km to sub-metric). This activity has been carried out by the teams involved in each of the WP1 – T1.2 activities and it has produced a set of database products.

These databases are currently available on the satways platform at <https://fireurisk.satways.net/> and are available as georeferenced rasters in Geotiff format. All data available on the platform contain the appropriate metadata and a description on the acquisition and generation process. More information on the platform, usage, organisation, management, data formats and metadata can be found on the deliverable **D4.3 - Internal cooperative platform of models, data and knowledge**.

## 2. Datasets in Space: Shared: European Territory

### Exposure datasets

Name	Description	Resolution	On Internal Platform	Owner
Ecological Values ET	The ecological values product for ET is normalized between 0 and 1, from lowest to highest value. Integrated using PCA method. <a href="https://fireurisk.satways.net/datasets/6447df9de4b09e4f2e18c33a">https://fireurisk.satways.net/datasets/6447df9de4b09e4f2e18c33a</a>	1000 m	Yes	<a href="#">Fatima Arrogante Funes</a>
Physical Assets and Ecosystem services (total value)	Socioeconomical and Ecosystem values at European scale. <a href="https://fireurisk.satways.net/datasets/6401ef8de4b054e2ce41a35a">https://fireurisk.satways.net/datasets/6401ef8de4b054e2ce41a35a</a>	1000 m	Yes	<a href="#">Clara Ochoa</a>



<b>Physical assets and ecosystem services ET scale (variables)</b>	Agricultural values at European scale. <a href="https://fireurisk.satways.net/datasets/63ff30c8e4b054e2ce4183bf">https://fireurisk.satways.net/datasets/63ff30c8e4b054e2ce4183bf</a>	1000 m	Yes	<a href="#">Clara Ochoa</a>
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### Vulnerability datasets

Name	Description	Resolution	On Internal Platform	Owner
<b>Ecological Vulnerability to wildfire at EU scale</b>	DRAFT ecological vulnerability map to be used for the implementation and testing of the Mobile App and to be replaced by the final map once it is finished. <a href="https://fireurisk.satways.net/datasets/63c984a1e4b0b33b57f527a3">https://fireurisk.satways.net/datasets/63c984a1e4b0b33b57f527a3</a>	1000 m	Yes	<a href="#">Fatima Arrogante Funes</a>
<b>Ecological Vulnerability</b>	DRAFT ecological vulnerability map to be used for the implementation and testing of the Mobile App and to be replaced by the final map once it is finished. <a href="https://fireurisk.satways.net/datasets/635bf514e4b0b33bef3af55c">https://fireurisk.satways.net/datasets/635bf514e4b0b33bef3af55c</a>	1000 m	Yes	<a href="#">M. Lucrecia Pettinari</a>
<b>ET WUI</b>	Wildland-Urban Interface map at ET scale. GeoTIFF raster with 10m spatial resolution. Contains three classes: 0 = non-WUI, 1 = intermix WUI, 2 = interface WUI. <a href="https://fireurisk.satways.net/datasets/62b947a1e4b0b33bb116eed6">https://fireurisk.satways.net/datasets/62b947a1e4b0b33bb116eed6</a>	1000 m	Yes	<a href="#">Avi Bar Massada</a>



### 3. Datasets in Space PS1: North Europe - RISE

Name	Description	Resolution	On Internal Platform	Owner
WUI PS1	Wildland-Urban Interface map at 100m scale for PS1 Kalmar län, South East Sweden. <a href="https://fireurisk.satways.net/datasets/62bab3f5e4b0b33bb116f8ed">https://fireurisk.satways.net/datasets/62bab3f5e4b0b33bb116f8ed</a>	100 m	Yes	<a href="#">Avi Bar Massada</a>

### 4. Datasets in Space PS2: Central-Eastern Europe - TUD

Name	Description	Resolution	On Internal Platform	Owner
WUI PS2	Central Eastern Europe <a href="https://fireurisk.satways.net/datasets/62bab43be4b0b33bb116f967">https://fireurisk.satways.net/datasets/62bab43be4b0b33bb116f967</a>	100 m	Yes	<a href="#">Avi Bar Massada</a>

### 5. Datasets in Space PS3: Mediterranean - Portugal

Name	Description	Resolution	On Internal Platform	Owner
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<b>WUI PS3</b>	Portugal <a href="https://fireurisk.satways.net/datasets/62bab461e4b0b33bb116f9c6">https://fireurisk.satways.net/datasets/62bab461e4b0b33bb116f9c6</a>	100 m	Yes	<a href="#">Avi Bar Massada</a>
<b>Homogeneous Territorial Classes (HTC)</b>	Map of the area classified in accordance with elevation, aspect, slope, fuel type, agro-ecological zone characteristics. <a href="https://fireurisk.satways.net/datasets/63298e94e4b0b33bb119f2ed">https://fireurisk.satways.net/datasets/63298e94e4b0b33bb119f2ed</a>	100 m	Yes	<a href="#">Giovanni Laneve</a>

## 6. Datasets in Space PS4: Mediterranean - Spain

Name	Description	Resolution	On Internal Platform	Owner
<b>A121 PS4 Population Assets</b>	<ul style="list-style-type: none"> <li>- Road network polyline</li> <li>- Track polyline</li> <li>- Urban road polyline</li> <li>- Power station polygons</li> <li>- Population data by age class attributed to Local Administrative Unit polygons.</li> </ul> <a href="https://fireurisk.satways.net/datasets/63a0a119e4b0b33b57f17f96">https://fireurisk.satways.net/datasets/63a0a119e4b0b33b57f17f96</a>	100 m	Yes	<a href="#">Fermín Alcasena</a>
<b>A1.2.1 - Maps of fire exposure metrics</b>	Fire exposure potential of fire-related values to the fire metrics. <a href="https://fireurisk.satways.net/datasets/64258f7ce4b054e2ce42e471">https://fireurisk.satways.net/datasets/64258f7ce4b054e2ce42e471</a>	100 m	Yes	<a href="#">Ana Miranda</a>
<b>A1.2.2 PS4 ReSVI (Relative Societal Vulnerability Index)</b>	Developed methodology that comprises quantitative and qualitative data for five dimensions of societal	100 m	Yes	<a href="#">Riccardo Laterza</a>





	vulnerability (social, economic, institutional, human capital and environmental) and elaborates a relative index based on the comparison among similar communities (territorial, administrative, or statistical units) and/or their higher administrative tiers. <a href="https://fireurisk.satways.net/datasets/645b6656e4b09e4f2e196772">https://fireurisk.satways.net/datasets/645b6656e4b09e4f2e196772</a>			
<b>A1.2.4 PS4 ECOSYSTEM SERVICES LOSSES</b>	The result of the economic assessment of the Ecosystem Service Losses caused by potential fires. <a href="https://fireurisk.satways.net/datasets/645a895ae4b09e4f2e195fb6">https://fireurisk.satways.net/datasets/645a895ae4b09e4f2e195fb6</a>	100 m	Yes	<a href="#">Juan Ramon Molina</a>
<b>WUI PS4</b>	Spain <a href="https://fireurisk.satways.net/datasets/62bab480e4b0b33bb116fa22">https://fireurisk.satways.net/datasets/62bab480e4b0b33bb116fa22</a>	100 m	Yes	<a href="#">Avi Bar Massada</a>

## 7. Datasets in Space PS5: Mediterranean - Greece

Name	Description	Resolution	On Internal Platform	Owner
<b>WUI PS5</b>	Greece <a href="https://fireurisk.satways.net/datasets/62bab49ee4b0b33bb116fa7e">https://fireurisk.satways.net/datasets/62bab49ee4b0b33bb116fa7e</a>	100 m	Yes	<a href="#">Avi Bar Massada</a>