



REGION OF ATTICA

INDEPENDENT DIRECTORATE OF CIVIL PROTECTION

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GOBEYOND ATTICA PILOT SITE – INSIGHTS AND LESSONS FROM REAL-WORLD DEMONSTRATIONS





Before GOing BEYOND



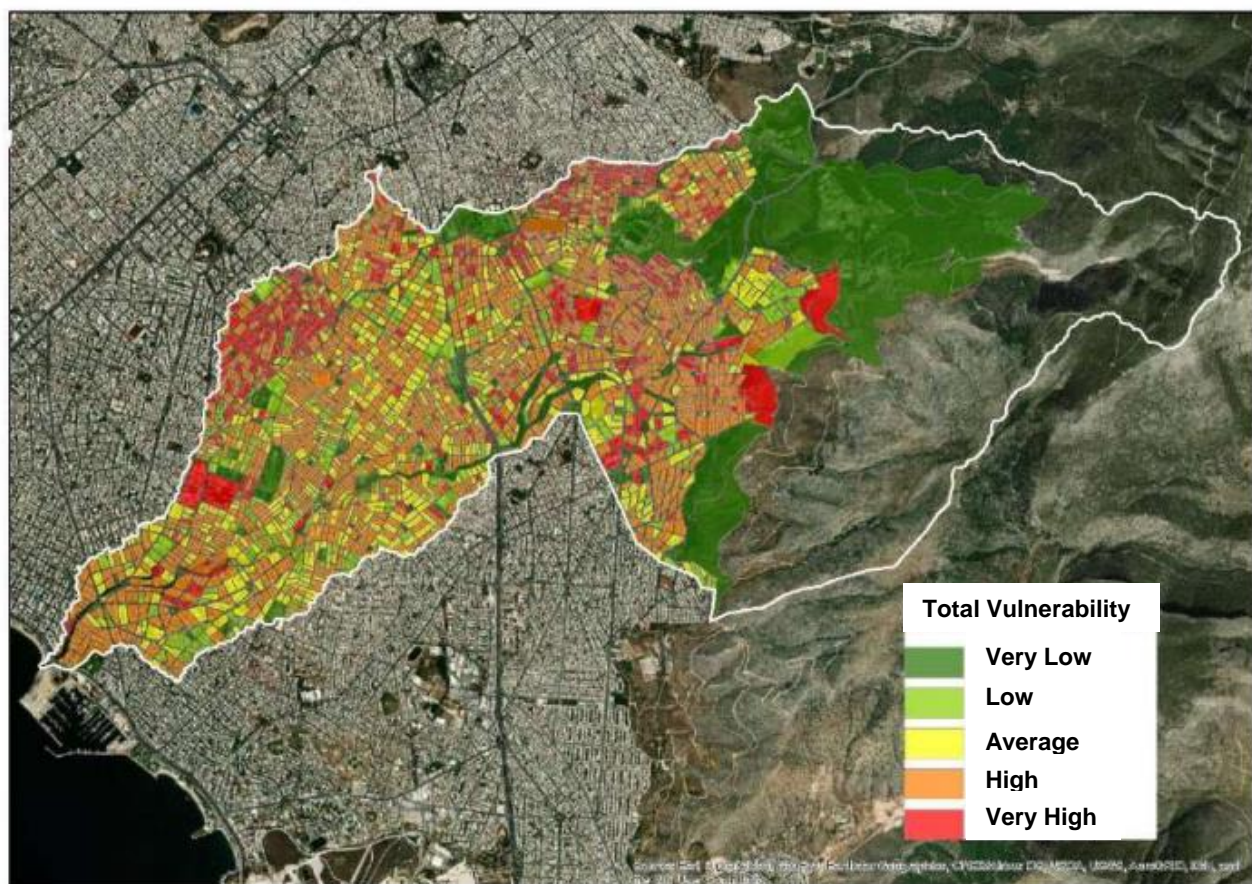
All the layers Attica of Region had

- | | | | | |
|--|-------------------------------|---------------------------------|---------------------------------|------------------------------|
| 1. Fire Stations | 23. Flood Hazard | 45. Line Network ADMIE | 66. Fire Spread Zones Ign5 N9 | 88. Population Density |
| 2. Hospitals | 24. Flood Risk | 46. Point Network ADMIE | 67. Total Fire Hazard Region 2 | 89. Total Fire Sensitivity |
| 3. Bridges | 25. Building Characteristics | 47. Fire Service Boundaries | 68. Ignition Point 6 | 90. Regional Roads |
| 4. Railway Network | 26. Population Age | 48. Kallikratis Municipalities | 69. Fire Spread Zones Ign6 W10 | 91. Fire Risk Region 4 |
| 5. High Flood Hazard Risk | 27. Population Density | 49. Forest Office Boundaries | 70. Fire Spread Zones Ign6 SW10 | 92. Building Characteristics |
| 6. Low Flood Hazard Risk | 28. Total Flood Vulnerability | 50. Area of Interest Fire | 71. Fire Spread Zones Ign6 SE9 | 93. Population Age |
| 7. Moderate Flood Hazard Risk | 29. Roads | 51. Exposure - Zone Value | 72. Total Fire Hazard Region 3 | 94. Local Roads |
| 8. Region of Attica | 30. Railways | 52. Ignition Point 1 | 73. Ignition Point 8 | |
| 9. Regional Units of Attica | 31. Health Services | 53. Fire Spread Zones Ign1 NW9 | 74. Fire Spread Zones Ign8 SE9 | |
| 10. 2021-2022 Attica Burned Area | 32. Hospitals Attica | 54. Ignition Point 9 | 75. Fire Spread Zones Ign8 SW10 | |
| 11. Corine Land Cover (CLC) 2018 Attica | 33. Accommodation Services | 55. Fire Spread Zones Ign9 N9 | 76. Fire Spread Zones Ign8 W10 | |
| 12. Emergency Shelters | 34. Culture and Heritage | 56. Fire Spread Zones Ign9 NW9 | 77. Ignition Point 7 | |
| 13. Channel type river network | 35. Educational Services | 57. Fire Spread Zones Ign9 W10 | 78. Fire Spread Zones Ign7 SE9 | |
| 14. Potential Flood Hazard Zones | 36. Fire Protection Services | 58. Fire Spread Zones Ign9 SW11 | 79. Fire Spread Zones Ign7 SW10 | |
| 15. Soil Erodibility Coefficient | 37. Industry | 59. Ignition Point 2 | 80. Ignition Point 4 | |
| 16. Past flood damages | 38. Public Services | 60. Fire Spread Zones Ign2 W10 | 81. Fire Spread Zones Ign4 SE9 | |
| 17. Burned Areas of Attica EFFIS | 39. Religious | 61. Fire Spread Zones Ign9 NW10 | 82. Fire Spread Zones Ign4 NW10 | |
| 18. Vulnerability to Entrapment in the Attica Region | 40. Retail | 62. Total Fire Hazard Region 1 | 83. Fire Spread Zones Ign4 SW10 | |
| 19. Earthquakes of Attica (1900-2009) | 41. Sport and Leisure | 63. Ignition Point 5 | 84. Total Fire Hazard Region 4 | |
| 20. Landslide Susceptibility | 42. Temporary Refuges | 64. Fire Spread Zones Ign5 SE9 | 85. Fire Risk Region 1 | |
| 21. Area of Interest Flood | 43. Transportation Services | 65. Fire Spread Zones Ign5 NE11 | 86. Fire Risk Region 2 | |
| 22. Exposure - Zone Value | 44. Utilities Services | | 87. Fire Risk Region 3 | |

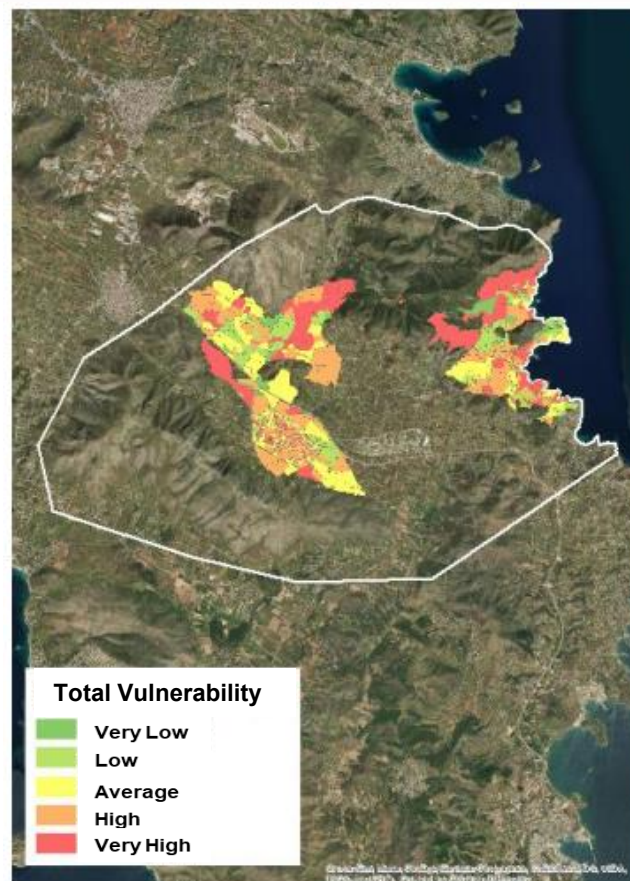


Before GOing BEYOND

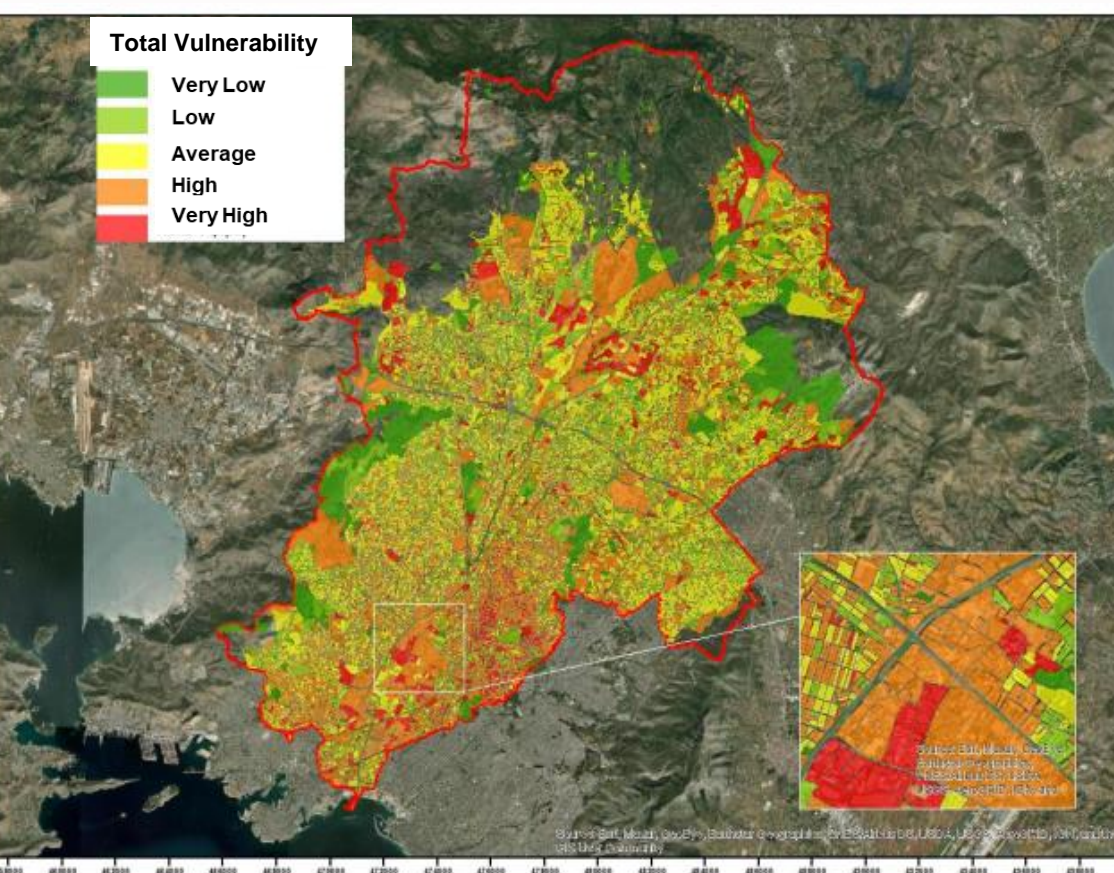
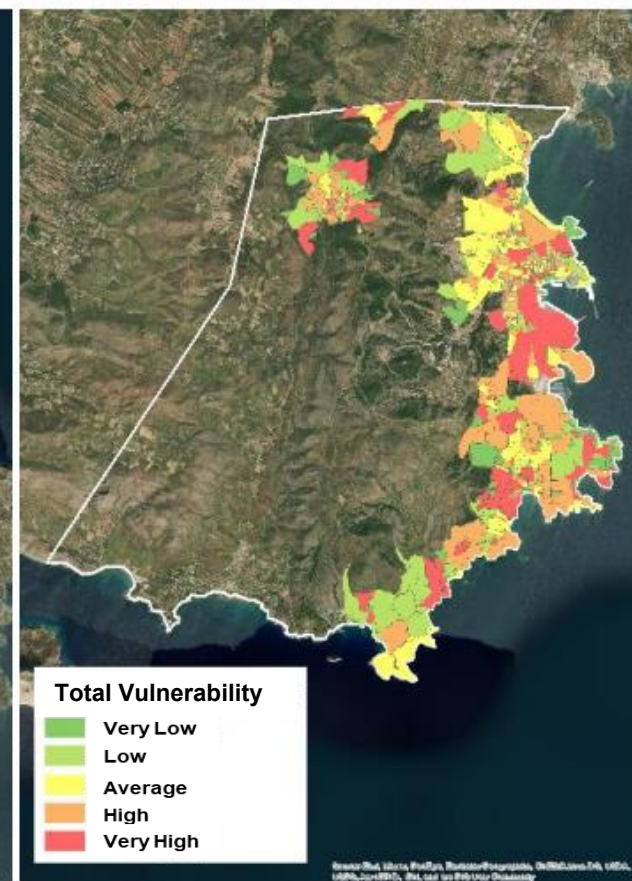
Vulnerability Maps



Map of Total Flood Vulnerability in the Southern Sector of Athens



Map of Total Wildfire Vulnerability in the Regional Unit of Eastern Attica



Map of Total Flood Vulnerability in the Kifisos River Basin, one of the most critical in the Attica region.

GOing BEYOND

GoBeyond Enchanging Decision Support



Comprehensive Insights

Delivers thorough analysis for improved decisions

Interactive Experience

Transforms static tools into dynamic interfaces

Real-time Data

Offers up-to-date information for informed decisions

Risk Analysis

Provides comprehensive insights for better decision-making

Emergency Response

Empowers users with real-time data in critical situations

GOing BEYOND

1 Receive timely alerts for environmental changes.

Automated Alerts

2 Access accurate forecasts for future environmental conditions.

Forecasts

3 Enhance user awareness for better hazard response.

User Awareness

Proactive Hazard Management





GOing BEYOND

**All the layers of the GoBeyond Region of Attica Platform are in place,
and new ones are continuously being added**



1. Fire Stations
2. Hospitals
3. Bridges
4. Railway Network
5. High Flood Hazard Risk
6. Low Flood Hazard Risk
7. Moderate Flood Hazard Risk
8. Region of Attica
9. Regional Units of Attica
10. 2021-2022 Attica Burned Area
11. Corine Land Cover (CLC) 2018 Attica
12. Emergency Shelters
13. Channel type river network
14. Potential Flood Hazard Zones
15. Soil Erodibility Coefficient
16. Past flood damages
17. Burned Areas of Attica EFFIS
18. Vulnerability to Entrapment in the Attica Region
19. Earthquakes of Attica (1900-2009)
20. Landslide Susceptibility
21. Area of Interest Flood
22. Exposure - Zone Value
23. Flood Hazard
24. Flood Risk
25. Building Characteristics
26. Population Age
27. Population Density
28. Total Flood Vulnerability
29. Roads
30. Railways
31. Health Services
32. Hospitals Attica
33. Accommodation Services
34. Culture and Heritage
35. Educational Services
36. Fire Protection Services
37. Industry
38. Public Services
39. Religious
40. Retail
41. Sport and Leisure
42. Temporary Refuges
43. Transportation Services
44. Utilities Services
45. Line Network ADMIE
46. Point Network ADMIE
47. Fire Service Boundaries
48. Kallikratis Municipalities Boundaries
49. Forest Office Boundaries
50. Area of Interest Fire
51. Exposure - Zone Value
52. Ignition Point 1
53. Fire Spread Zones Ign1 NW9
54. Ignition Point 9
55. Fire Spread Zones Ign9 N9
56. Fire Spread Zones Ign9 NW9
57. Fire Spread Zones Ign9 W10
58. Fire Spread Zones Ign9 SW11
59. Ignition Point 2
60. Fire Spread Zones Ign2 W10
61. Fire Spread Zones Ign9 NW10
62. Total Fire Hazard Region 1
63. Ignition Point 5
64. Fire Spread Zones Ign5 SE9
65. Fire Spread Zones Ign5 NE11
66. Fire Spread Zones Ign5 N9
67. Total Fire Hazard Region 2
68. Ignition Point 6
69. Fire Spread Zones Ign6 W10
70. Fire Spread Zones Ign6 SW10
71. Fire Spread Zones Ign6 SE9
72. Total Fire Hazard Region 3
73. Ignition Point 8
74. Fire Spread Zones Ign8 SE9
75. Fire Spread Zones Ign8 SW10
76. Fire Spread Zones Ign8 W10
77. Ignition Point 7
78. Fire Spread Zones Ign7 SE9
79. Fire Spread Zones Ign7 SW10
80. Ignition Point 4
81. Fire Spread Zones Ign4 SE9
82. Fire Spread Zones Ign4 NW10
83. Fire Spread Zones Ign4 SW10
84. Total Fire Hazard Region 4
85. Fire Risk Region 1
86. Fire Risk Region 2
87. Fire Risk Region 3
88. Population Density
89. Total Fire Sensitivity
90. Regional Roads
91. Fire Risk Region 4
92. Building Characteristics
93. Population Age
94. Local Roads
95. Minimum temperature extreme forecast index (at 2m)
96. Wind gust extreme forecast index (at 10m)
97. Probability of Fire
98. Total precipitation extreme forecast index
99. Maximum temperature extreme forecast index (at 2m)
100. Forecast 75% - HYDS
101. Forecast 50% - HYDS
102. Forecast 25% - HYDS
103. NOA Forecast
104. HYDS Colour Map (Local)
105. PM2.5 - Fine Particulate Matter (CAMS)
106. NO2 - Total Nitrogen Dioxide
107. Fire Occurrence Probability Index (Forest fire)
108. Vapour pressure deficit (Forest fire)
109. Hot-dry windy index (Forest fire)
110. Accumulated precipitation - 3-hour interval.
111. Accumulated snowfall - 3-hour interval
112. Maximum 10m wind gust - 48h interval
113. Maximum 10m wind gust - 3-hour interval
114. Precipitation accumulated - 9-hour interval
115. Precipitation accumulated - 3-hour interval
116. Total accumulated precipitation
117. Flash Flood Hazard Level Estimations
118. Pluvial Flooding - Hazard Estimations - Hourly Accumulations
119. Precipitation intensity
120. Hourly Rainfall Accumulations (in mm) – OPERA
121. Overnight Hospitals
122. Overnight Pharmacies



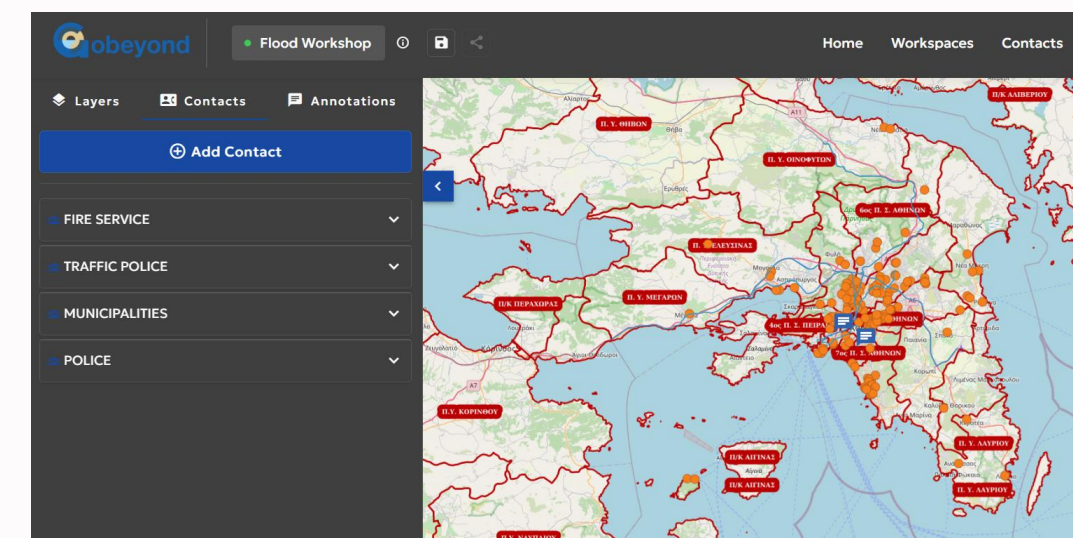
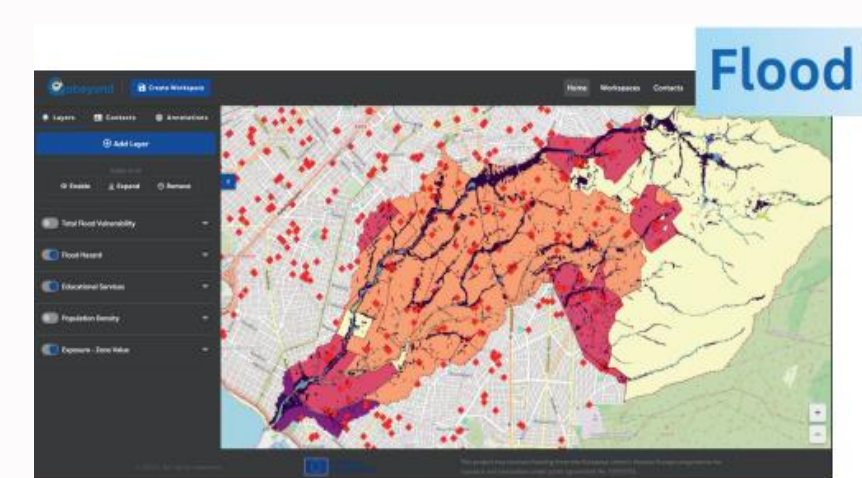
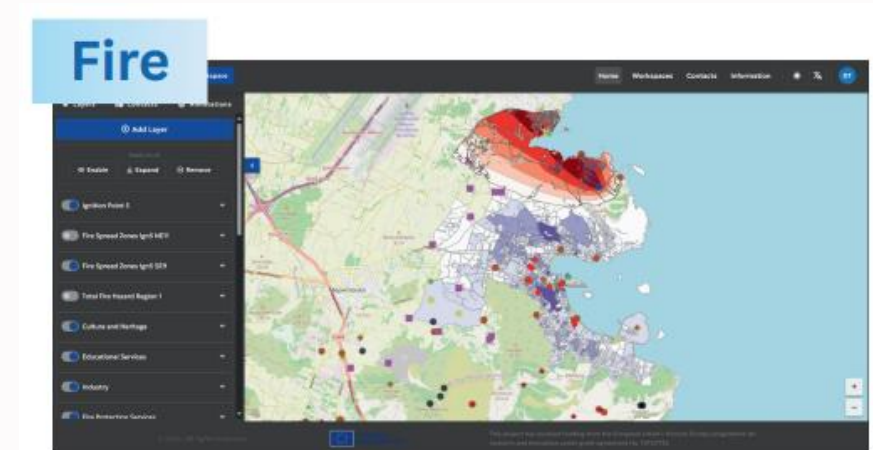
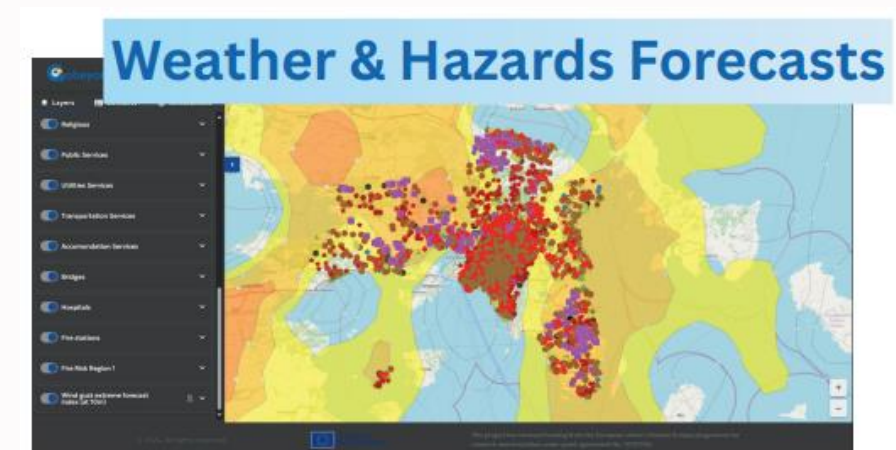


GOing BEYOND

DSS GOBEYOND PLATFORM – ATTICA PILOT SITE



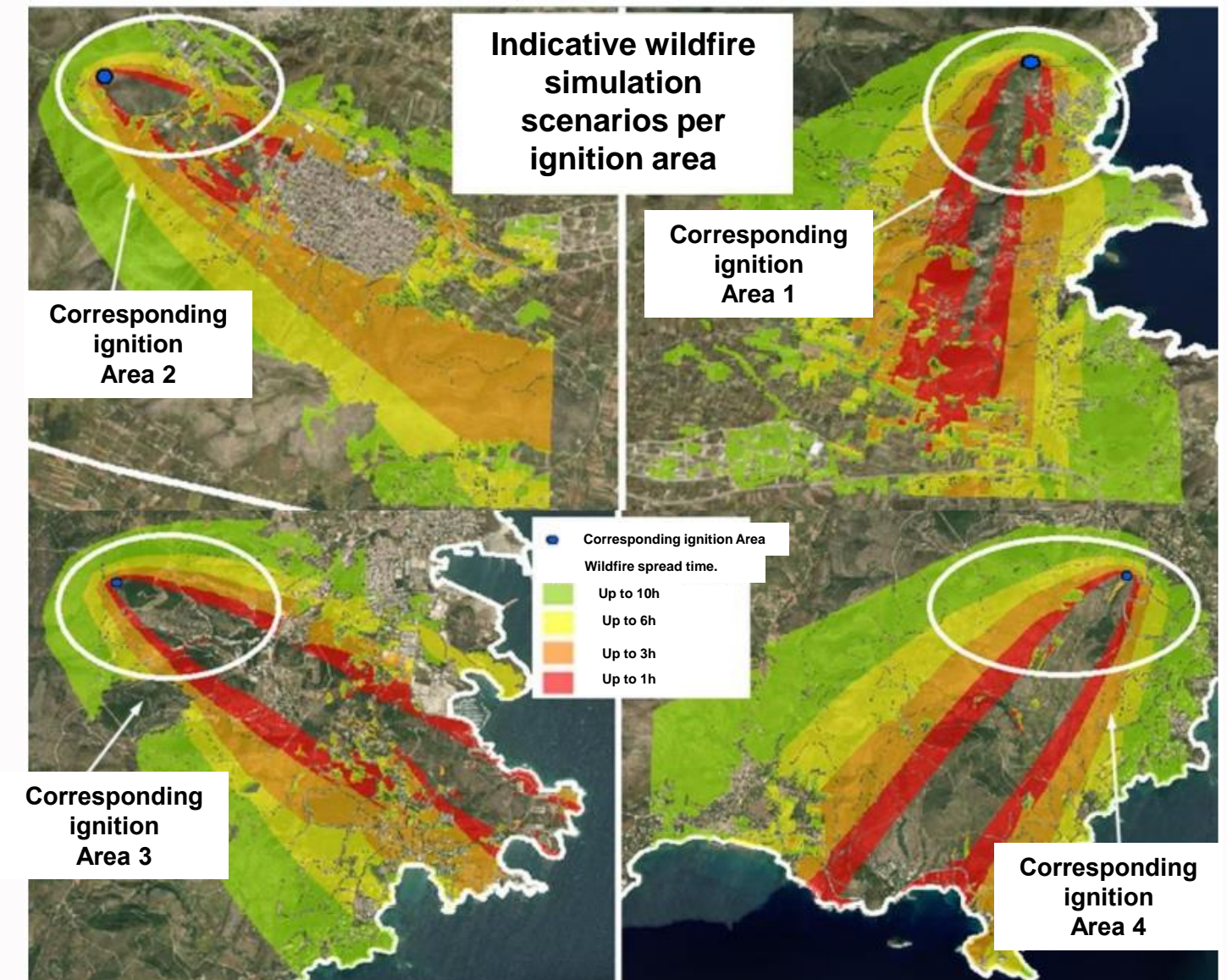
- 📌 **120+ geospatial layers** for comprehensive risk analysis.
- 🌐 **Multi-hazard risk assessment** with real-time data.
- 🏠 **Dynamic emergency shelter points** based on weather forecasts.
- 🏥 **Live hospital & pharmacy duty updates.**
- 🔥 **Real-time road & zone closures** for fire risks.
- ⚠️ **Automated environmental alerts & forecasts.**
- 🤝 **Inter-agency communication workspaces** for coordinated response.



Further GOing BEYOND

DSS GOBEYOND PLATFORM – ATTICA PILOT SITE

- 🔥 **Predictive wildfire modeling** is being developed to assess fire evolution and spread.
- 🔧 **A dynamic decision-support tool** will enhance risk assessment and response planning.
- 🌐 **Integration of geospatial data & real-time** updates aims to improve preparedness.
- 📢 **Automated alerts and real-time fire risk assessments** will support rapid response.
- 🏠 **Dynamic emergency shelter points** will help optimize evacuation strategies.
- 🤝 **Enhanced coordination and proactive planning** for a data-driven civil protection approach.



Far GOing BEYOND

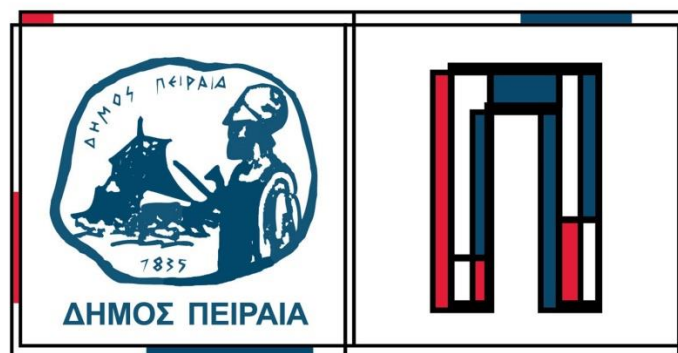
**Our performance would not have been as satisfactory
without the fruitful collaboration
of three esteemed colleagues.**



Far GOing BEYOND



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CIVIL PROTECTION



- 163.572 inhabitants (2021)
- 10,8 km²
- 15.066 hab/km²





REGION OF ATTICA



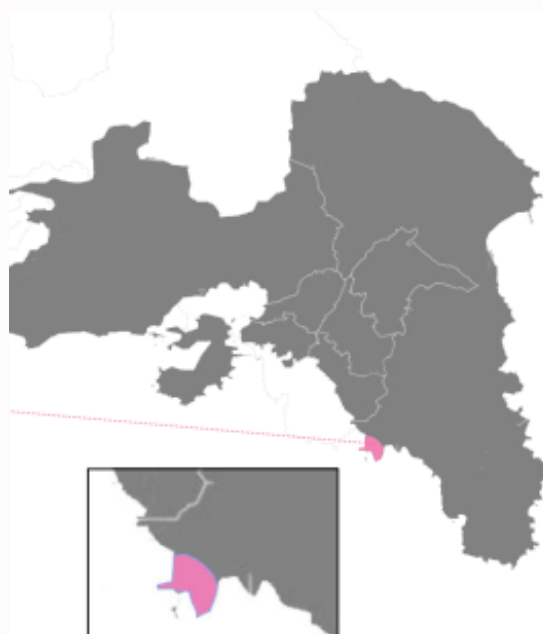
Far GOing BEYOND



INDEPENDENT DIRECTORATE OF
CIVIL PROTECTION



HELLENIC REPUBLIC
Municipality of Vari Voula Vouliagmeni



**MUNICIPALITY of
VARI VOULA VOULIAGMENI**

Inhabitants: 52.546

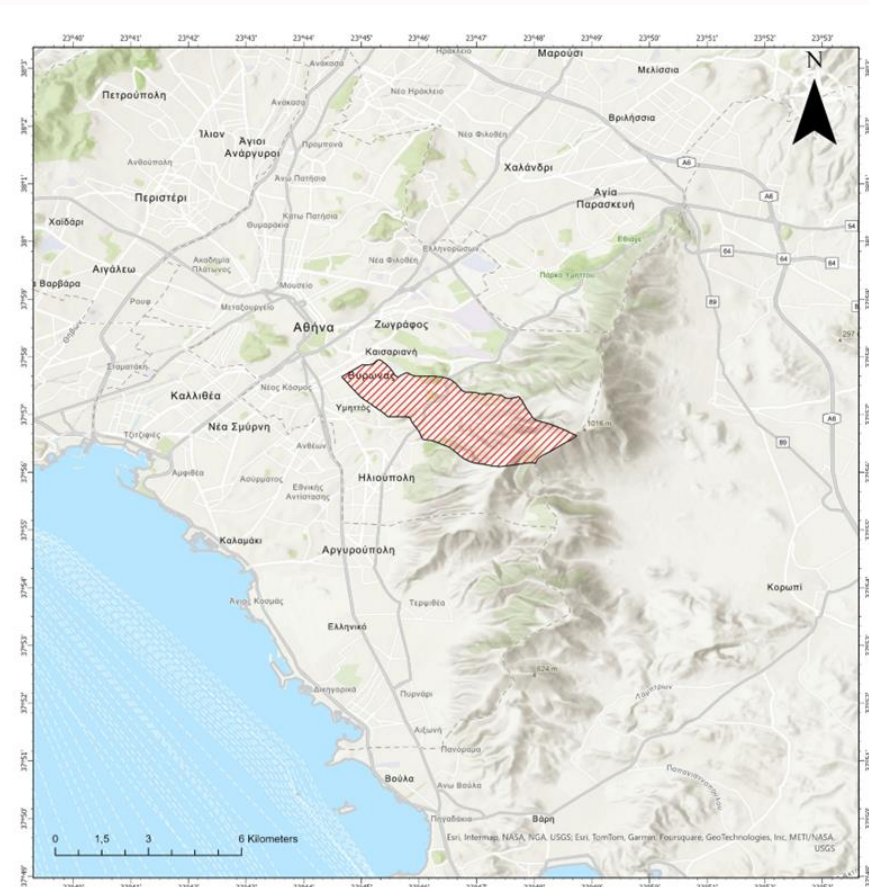
Total Area: 36.781 km²



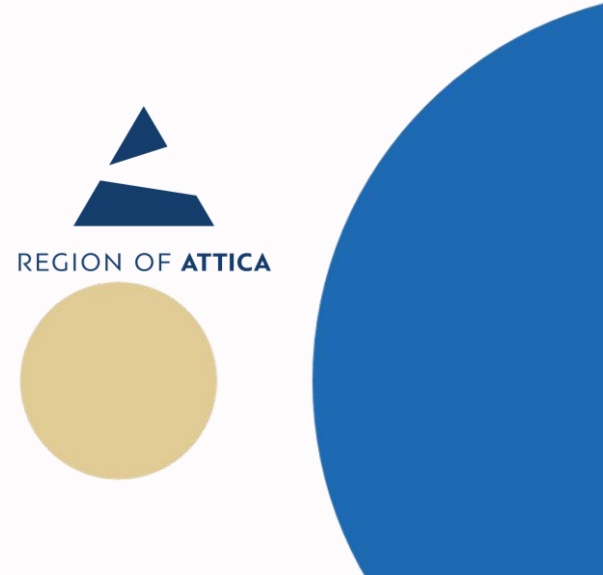
Funded by
the European Union



Far GOing BEYOND



- **59.134**
inhabitants
(2021)
- **9,2 km²**
- **6.422 hab/km²**



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Thank you for your attention !

