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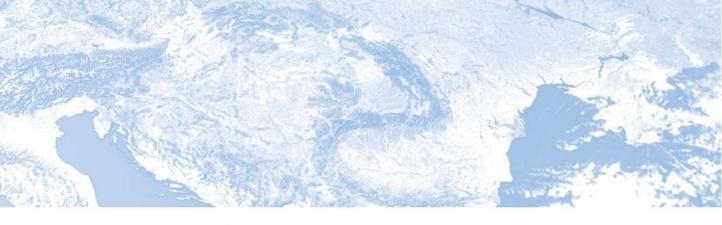
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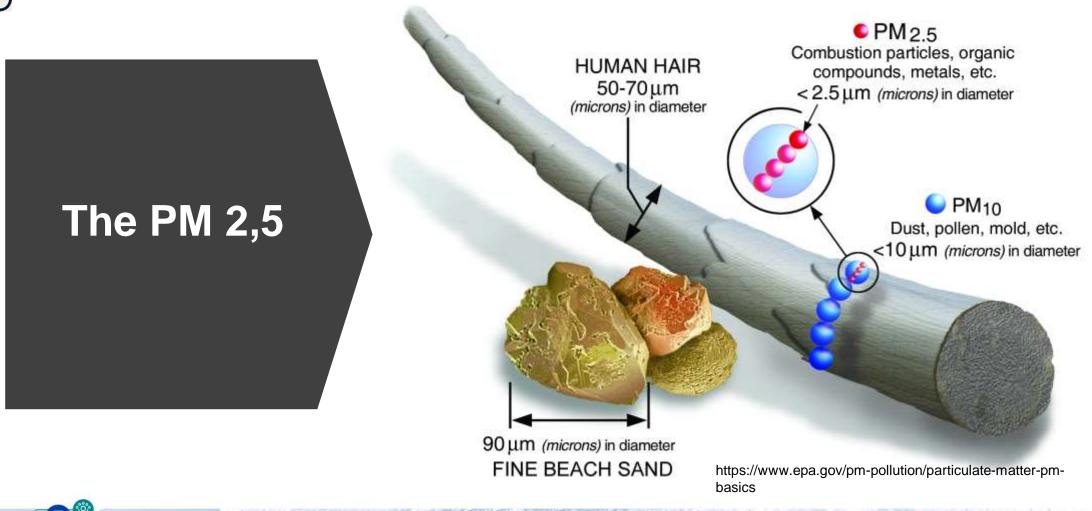
Earth Observation: from Space to European Statistics

Brussels, 6–11 March 2025



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The AiR Out There – T.AR.O.T.

The IDEA:

A Dashboard for visualizing premature deaths due to PM2,5 with a higher temporal and spatial resolution





European Big Data Hackathon 2025 Earth Observation: from Space to European Statistics







GEODATA



CAMS European air quality reanalyses

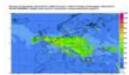
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Published on 3 September 2021

This dataset provides annual air quality reanalyses for Europe based on both unvalidated and validated observations. CAMS produces annual air quality reanalyses for the European domain at significantly higher spatial resolution (0.1 degrees, approx. 10km) than is available from the global reanalyses...



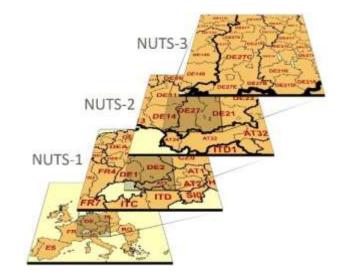
CAMS European air quality forecasts



Published on 6 February 2020

This dataset provides daily air quality analyses and forecasts for Europe. CAMS produces specific daily air quality analyses and forecasts for the European domain at significantly higher spatial resolution (0.1 degrees, approx. 10km) than is available from the global analyses and forecasts. The pro...

(Aerosol) (Reactive gas)	Analysis	(Forecast)	Europe	Future	Past	Present
(Atmosphere (composition))						







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Premature deaths due to exposure to fine particulate matter (PM2.5)

IT X TIME	\$	2015 🗢	2016 🗢	2017 💠	2018 🜲	2019 🗢	2020 💠	2021 💠	2022 🜲
GEO 💠									
European Union - 27 countries (from 2020)	671	322 139	283 847	304 667	291 931	231 973	238 582	254 867	239 886
European Union - 28 countries (2013-2020)	:	:	1	3	4	4			:
Belgium	256	6 214	5 775	5 679	5.917	4 537	3 930	4 469	4 147
Bulgaria	467	15 036	13 748	13 611	12 552	10 413	11 243	11 482	9 883
Czechia	858	9 250	8 638	9 336	10 312	6 947	6 983	8 489	6 884
Denmark	422	1 845	1 652	1 367	2 204	1 720	1 841	1 256	1 195
Germany	869	49 729	44 221	45 212	49 311	34 375	28 926	32 356	32 628
Estonia	481	214	129	72	231	80	59	114	87
Ireland	816	392	466	277	625	597	489	487	527
Greece	651	12 502	12 169	20 695	11 151	9 480	8 813	11 826	10 729
Spain	454	22 199	17 515	20 152	15 124	14 745	16 994	14 088	18 549
France	700	28 192	24 435	22 995	22 982	18 697	16 476	19 704	20 683
Croatia	796	4 714	5 199	4 753	4 804	3 563	4 260	4 369	3 813
Italy	848	61 503	50 044	55 162	47 316	42 679	52 312	44 461	48 686
Cyprus	620	789	541	620	527	583	564	629	693
Latvia	783	1 247	1 241	898	1 434	1 882	836	1 405	822
Lithuania	791	2 086	2 827	1 463	2 879	1 868	1 454	2 138	1 472
Luxembourg	182	201	175	149	149	94	74	77	75
Hungary	763	13 834	11 298	12 620	12 171	8 672	9 504	18 393	8 573
Malta	162	199	150	173	196	198	151	196	173
Netherlands	683	7 682	6 645	6 782	7 563	6 063	4 976	5 700	5 254
Austria	289	4 901	3 961	4 234	5 887	3 682	3 168	3 204	3 321
Poland	153	44 506	41 588	44 862	46 823	35 675	36 562	47 335	34 719
Portugal	620	3 942	2 912	3 841	2 648	2 517	2 641	2 129	3 639
Romania	053	24 011	21 597	23 484	23 168	18 481	21 601	22 886	17 949
Slovenia	306	1 657	1 470	1 556	1 498	1 144	1 236	1 137	1 278
Slovakia	877	5 131	4 473	5 032	4 857	3 465	3 920	5 359	3 710
Fisher									2000



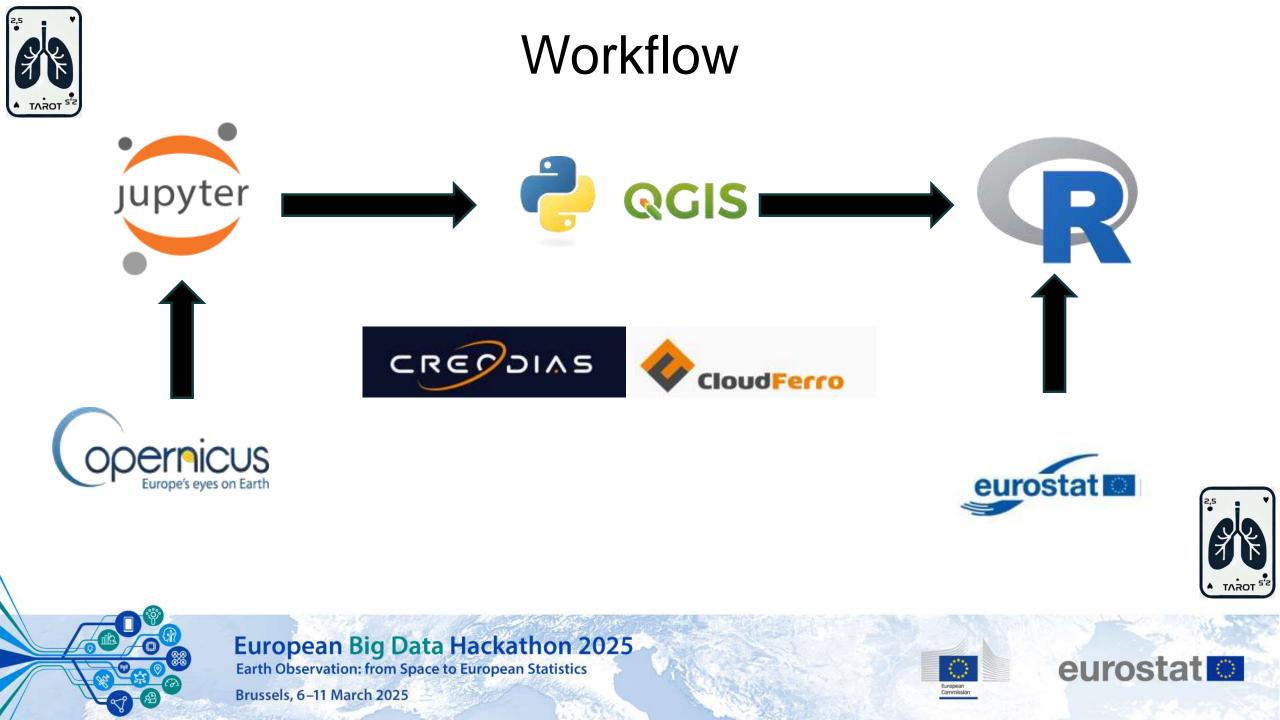


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Earth Observation: from Space to European Statistics















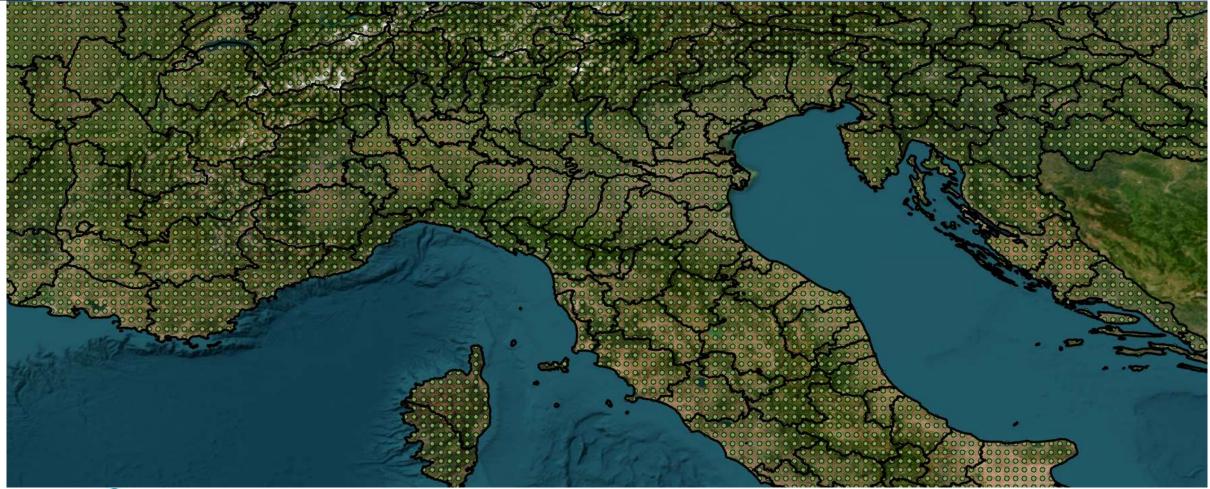
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Number of Dangerous Days per Year

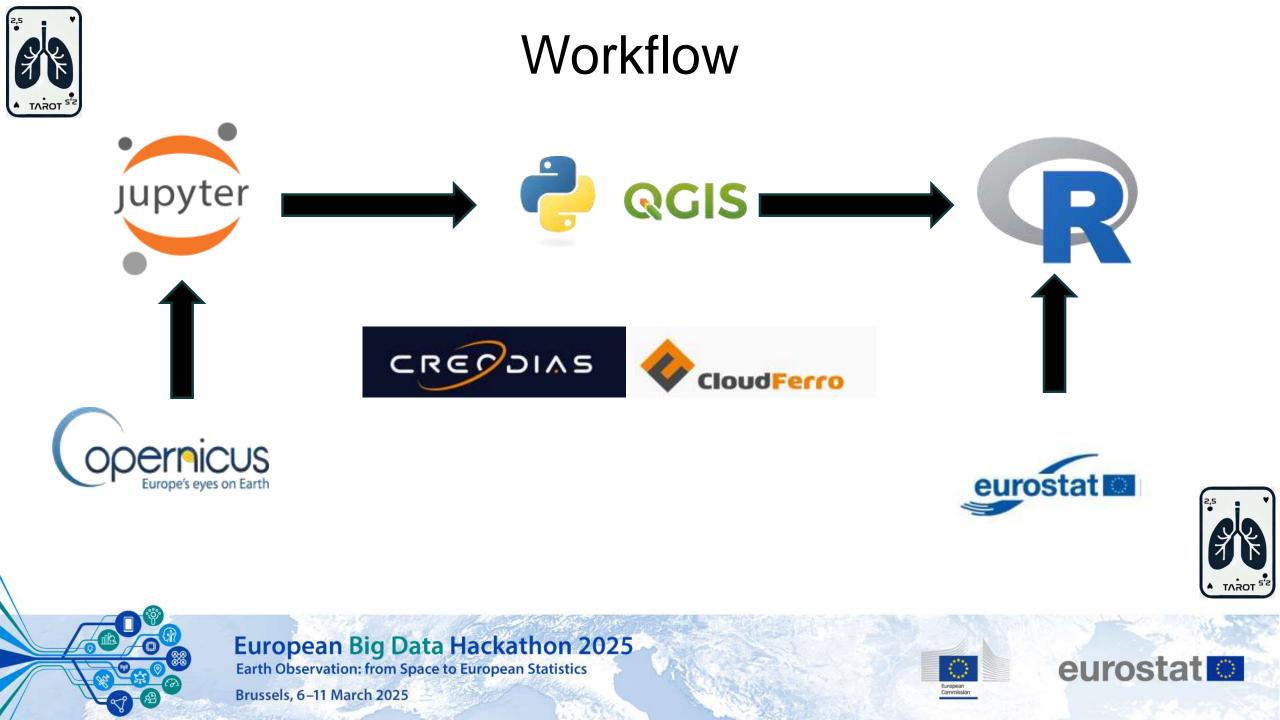




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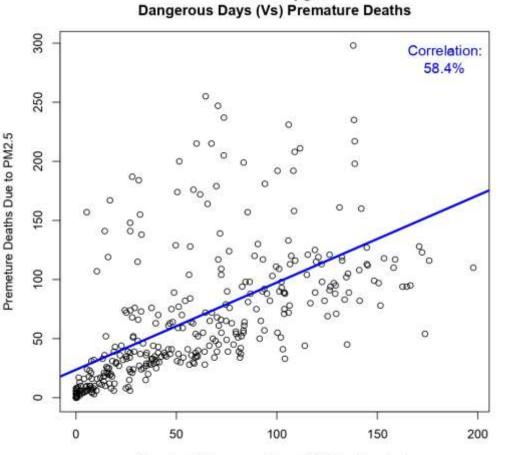






Correlation Investigation

PM2.5 > 25 µg/m³



Number Of Dangerous Days (PM2.5 > 25 µg/m³)





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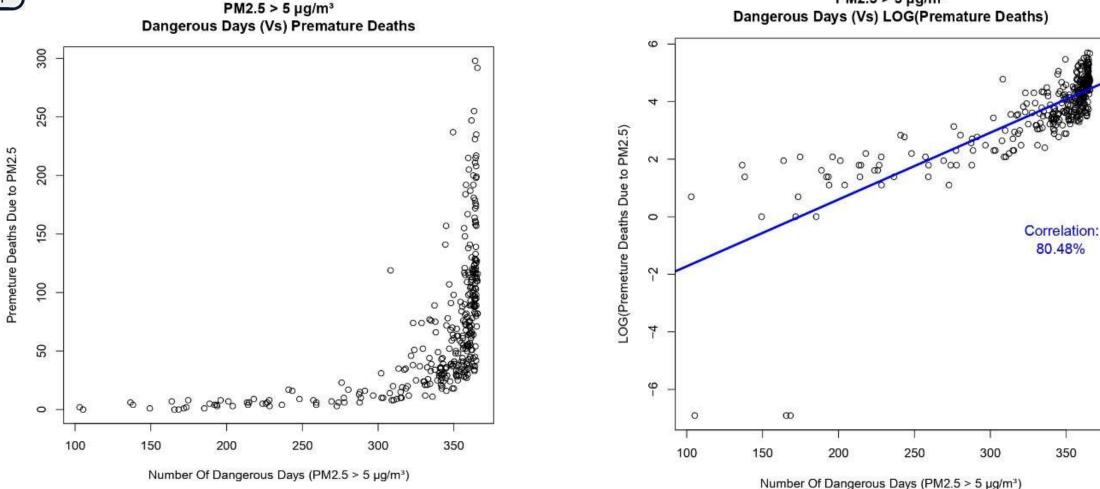
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Correlation Investigation





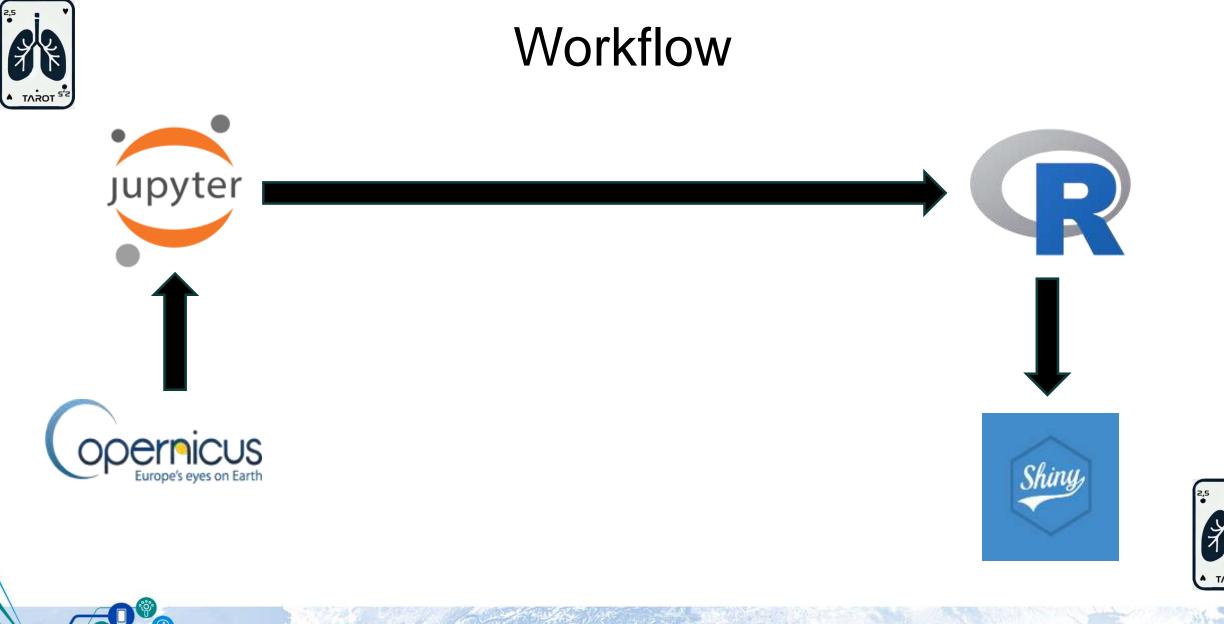


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The AiR Out There – T.AR.O.T.



Andreas Hadjittofis



Michael Michaelides



Andreas Sotiriou





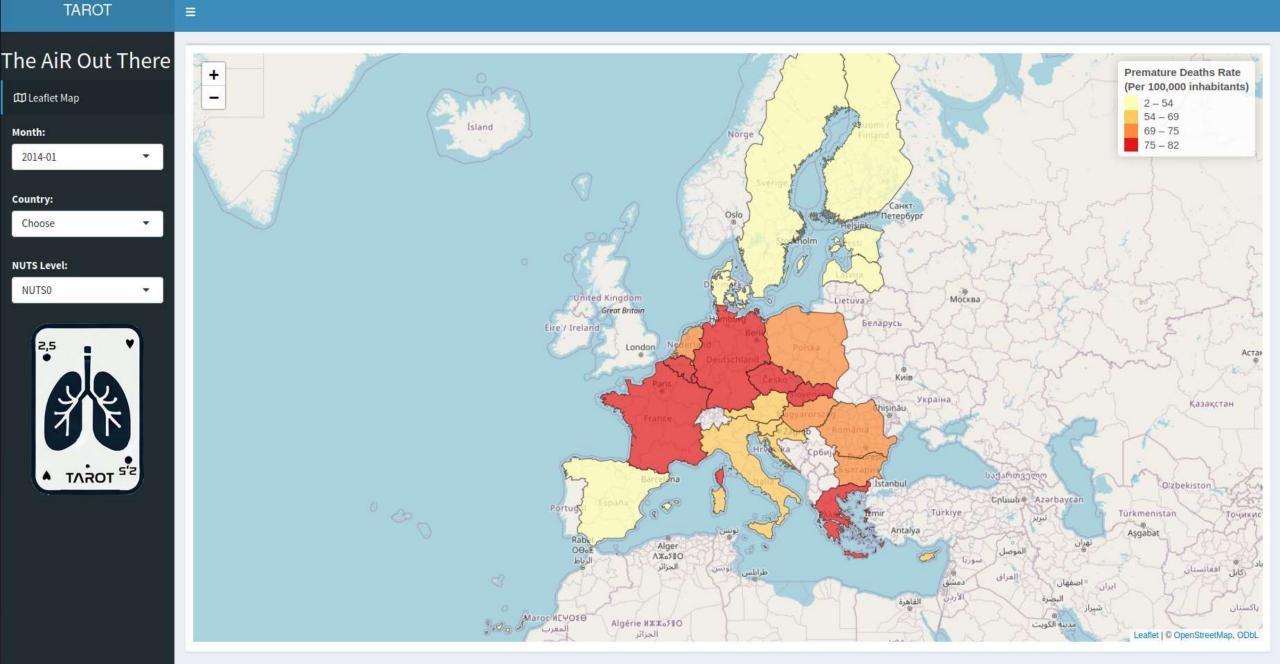
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TAROT

54 - 72 Kocael Yalova 72 - 84 Bursa Bilecik Çanakkale Balikesin Eskişehi Balikesir Eskisehir ٠ Kütahya Kutah Greece Afyonkarahisar Manisa Uşak Manisa Afyonkarahisa Izmir Aydın Isparta Muğla Antalya Leaflet | C OpenStreetMap, ODbL



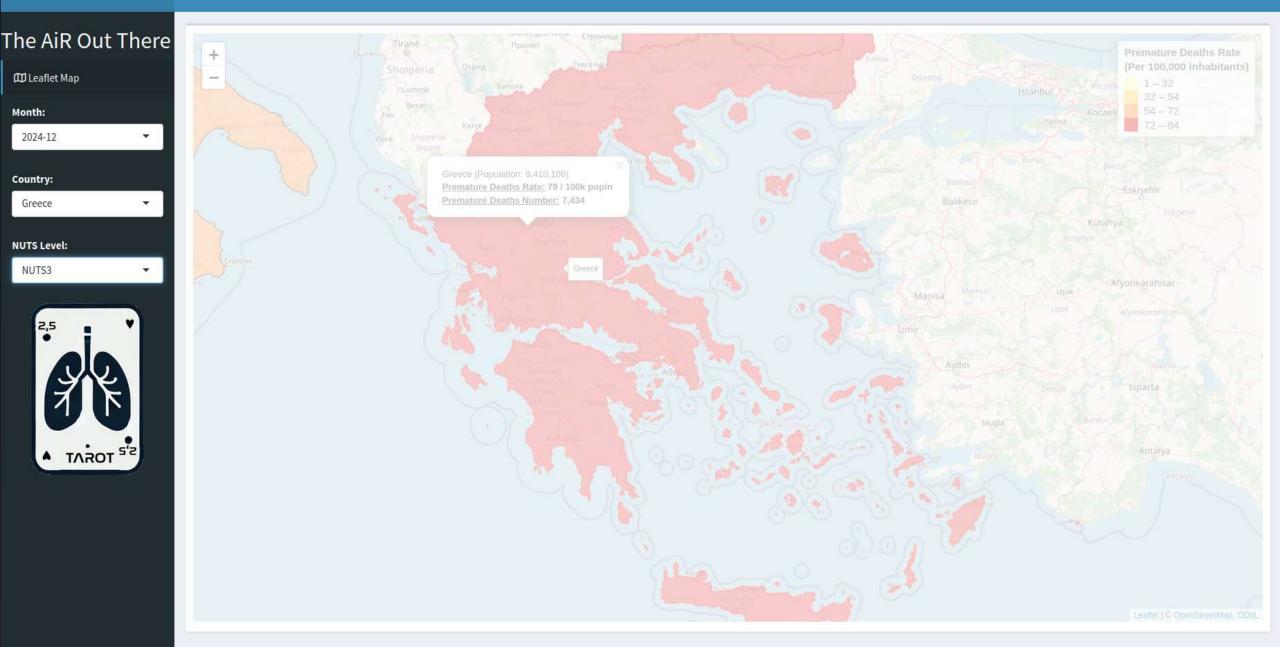
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The AiR Out There

Premature Deaths Rate

S- Publish

+ Edirne Гевгели (Per 100,000 inhabitants) Охрид Shqipëria 🖽 Leaflet Map -Tekirdağ 0-32 Битола Kocael Lushnjë İstanbul 32 - 47Berat 47 - 67 Fier Month: Kocaeli Yalova 67 - 86 Korce 2024-12 -Vlore Shqipëria Bursa Bilecik Çanakkale Country: Balikesin Eskişehir Balikesir Greece v Eskişehir 0 Kütahya Kutah NUTS Level: Crotone NUTS3 Πρέδείο -Afyonkarahisar Manisa Uşak Manisa Dytiki Attiki (Population: 164,998) D. Uşal Afyonkarahisar Premature Deaths Rate: 64 / 100k popin 2,5 V Premature Deaths Number: 106 Izmir Dytiki Attiki Aydın Aydın Isparta 14 D Muğla Rurdun Antalya PIV 40. 1 Xay Ø Leaflet | C OpenStreetMap, ODbL

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