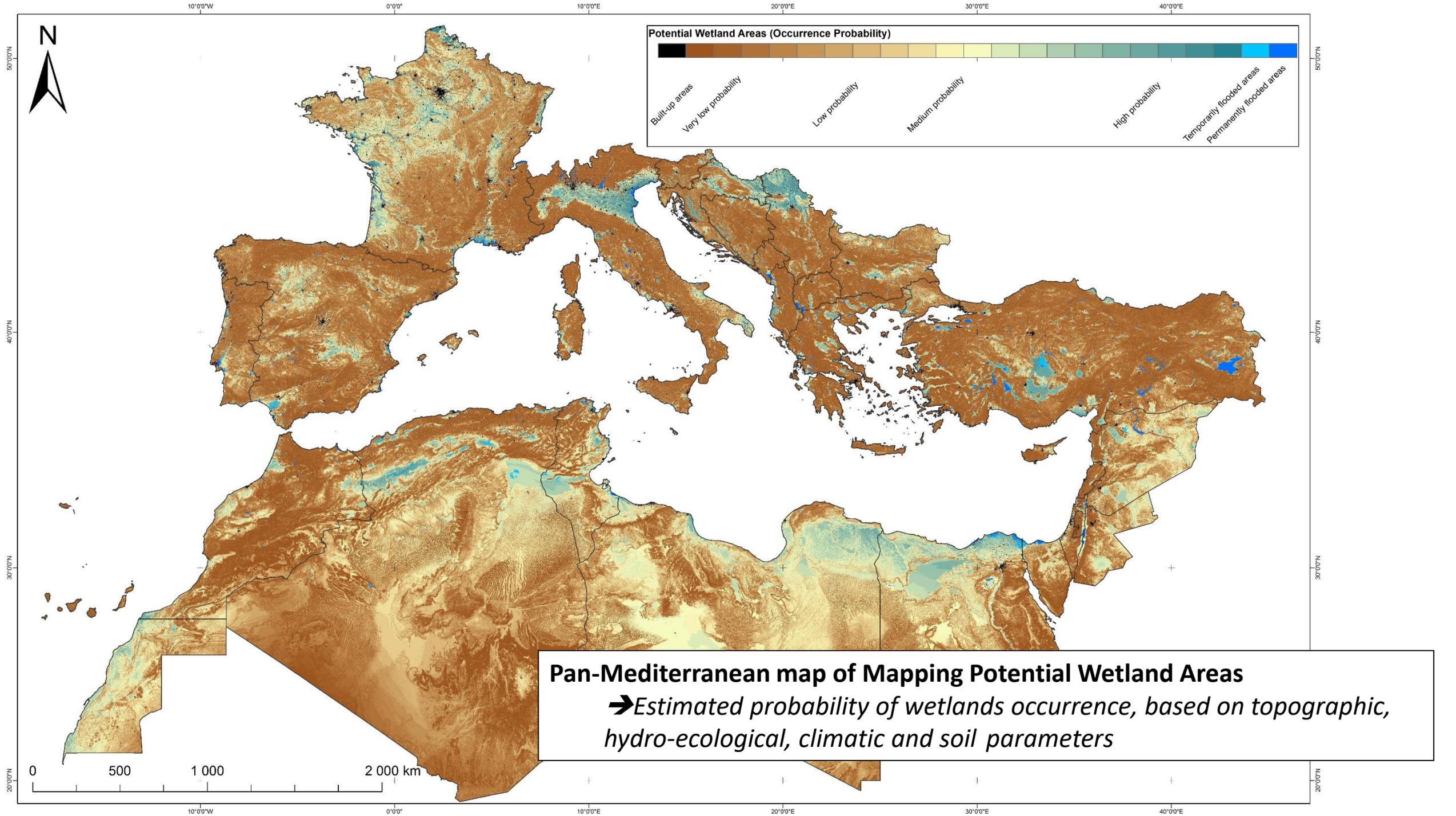
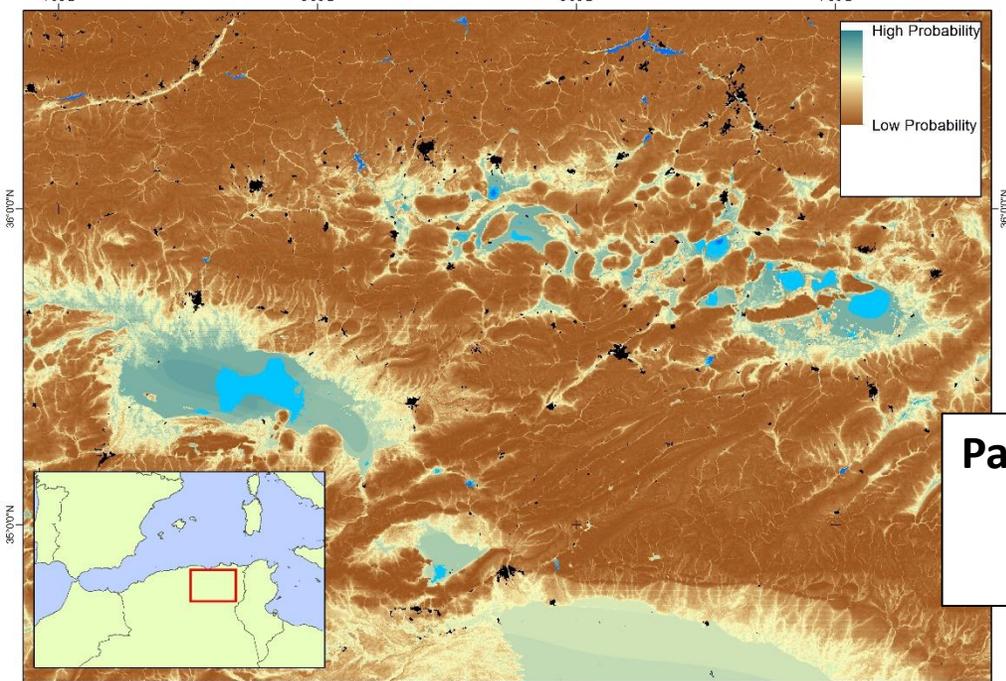
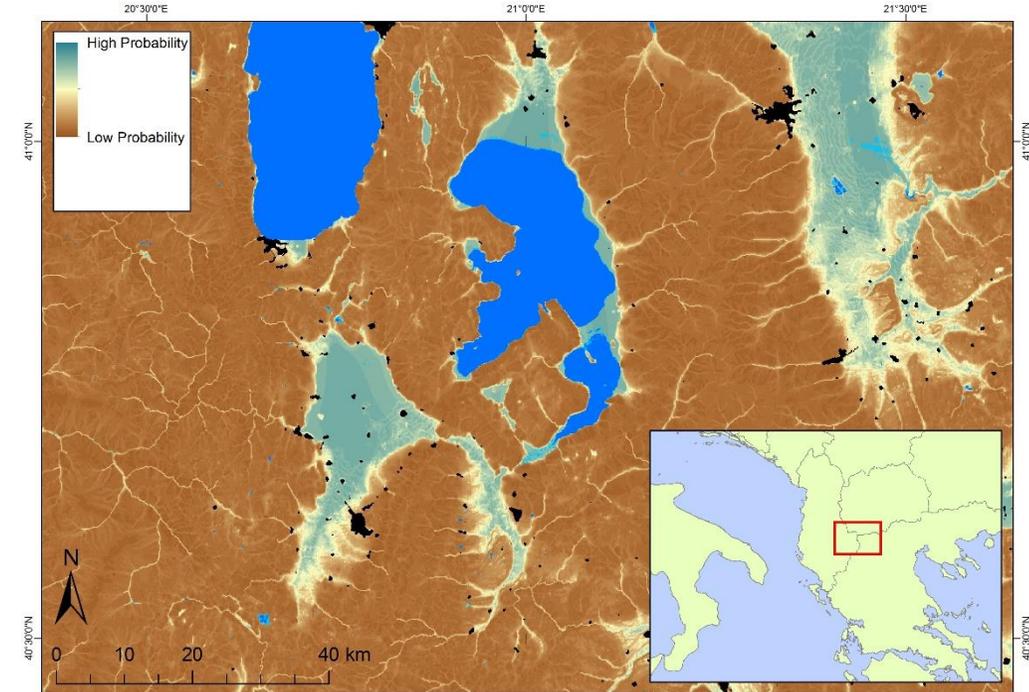
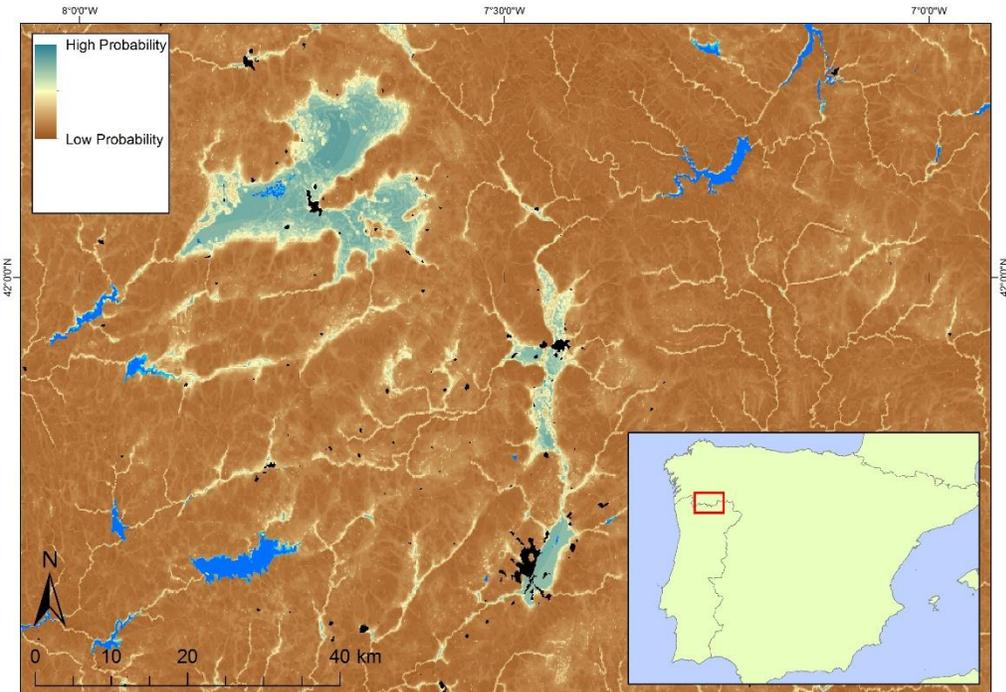


Large scale mapping of potential areas for wetlands restoration

Anis Guelmami (Tour du Valat)

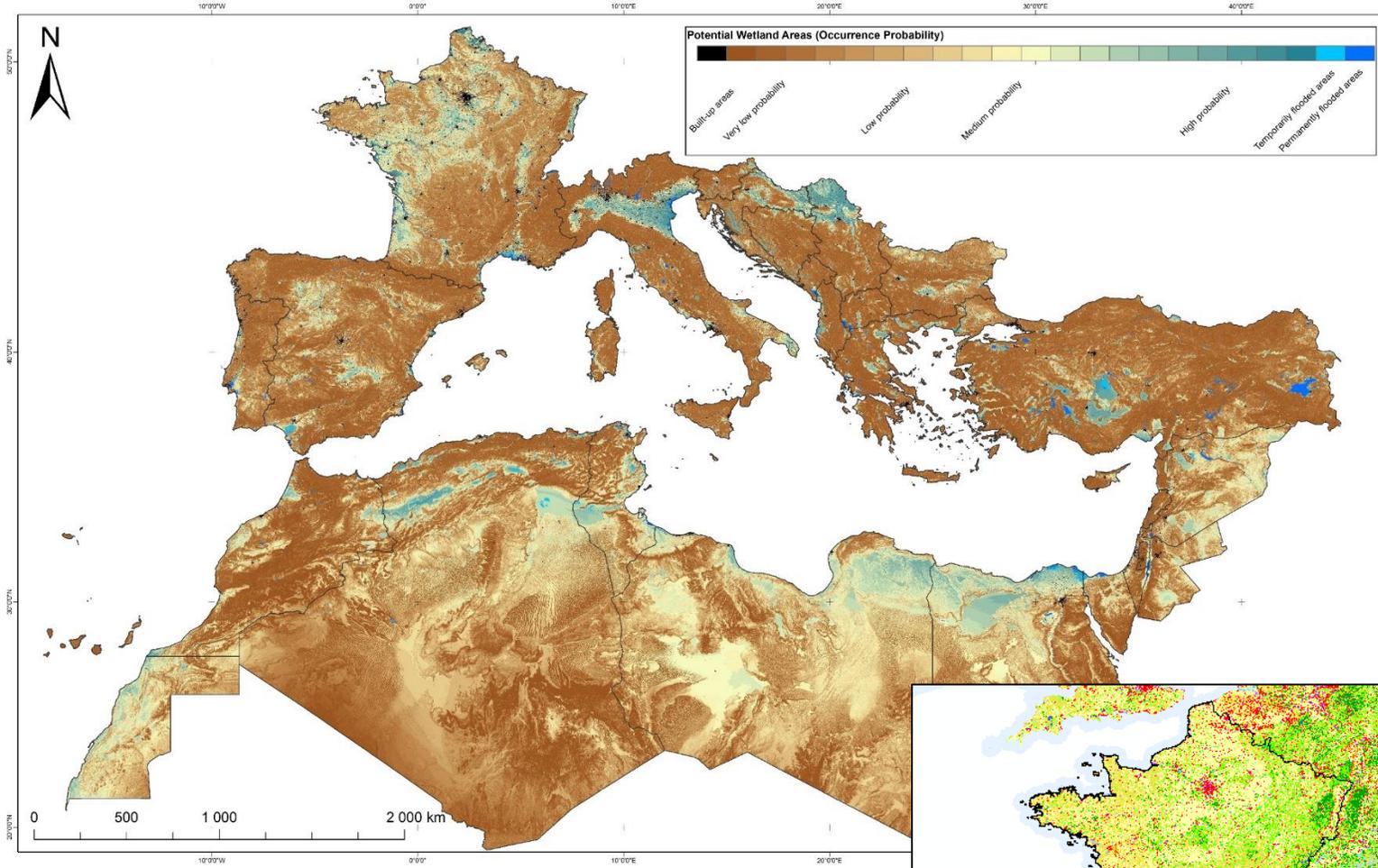




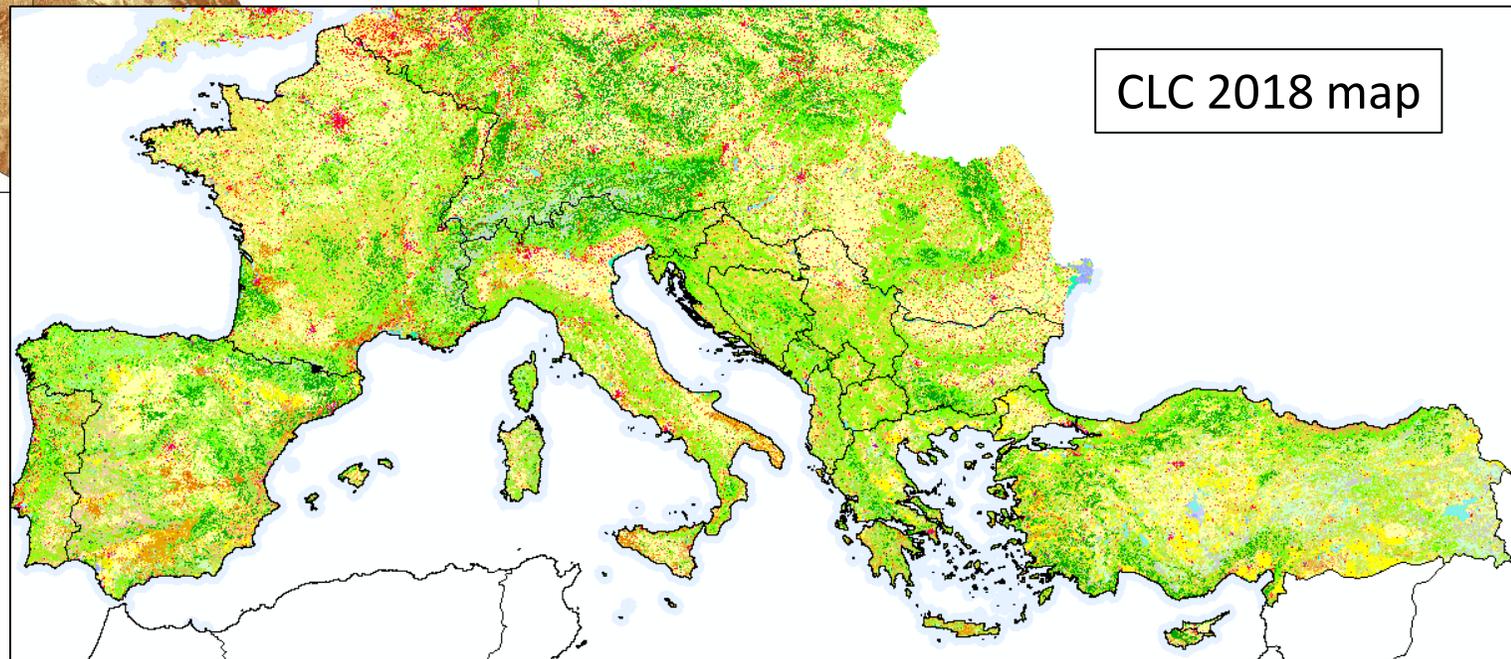
Local examples...

Pan-Mediterranean map of Mapping Potential Wetland Areas

➔Estimated probability of wetlands occurrence, based on topographic, hydro-ecological, climatic and soil parameters



Combining PWA and LULC maps

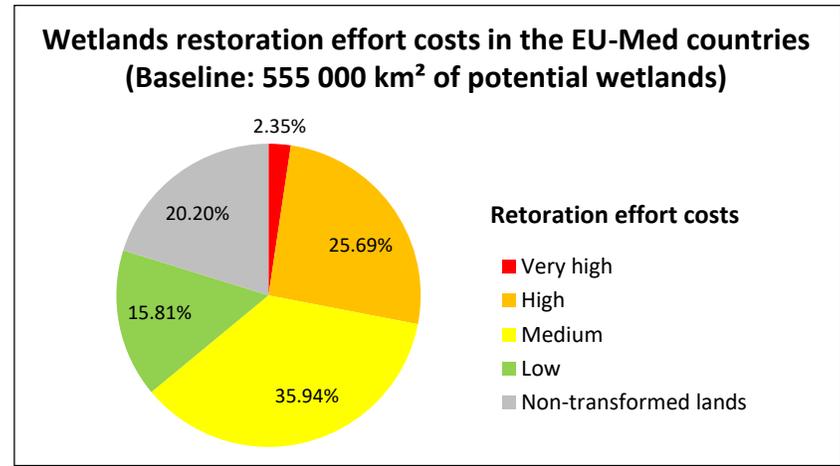


CLC Class	CLC Name
111	Continuous urban fabric
112	Discontinuous urban fabric
121	Industrial or commercial units
122	Road and rail networks and associated land
123	Port areas
124	Airports
131	Mineral extraction sites
132	Dump sites
133	Construction sites
141	Green urban areas
142	Sport and leisure facilities
211	Non-irrigated arable land
212	Permanently irrigated land
213	Rice fields
221	Vineyards
222	Fruit trees and berry plantations
223	Olive groves
231	Pastures
241	Annual crops associated with permanent crops
242	Complex cultivation patterns
243	Land principally occupied by agriculture, with significant areas of natural vegetation
244	Agro-forestry areas
311	Broad-leaved forest
312	Coniferous forest
313	Mixed forest
321	Natural grasslands
322	Moors and heathland
323	Sclerophyllous vegetation
324	Transitional woodland-shrub
331	Beaches, dunes, sands
332	Bare rocks
333	Sparsely vegetated areas
334	Burnt areas
335	Glaciers and perpetual snow
411	Inland marshes
412	Peat bogs
421	Salt marshes
422	Salines
423	Intertidal flats
511	Water courses
512	Water bodies
521	Coastal lagoons
522	Estuaries
523	Sea and ocean

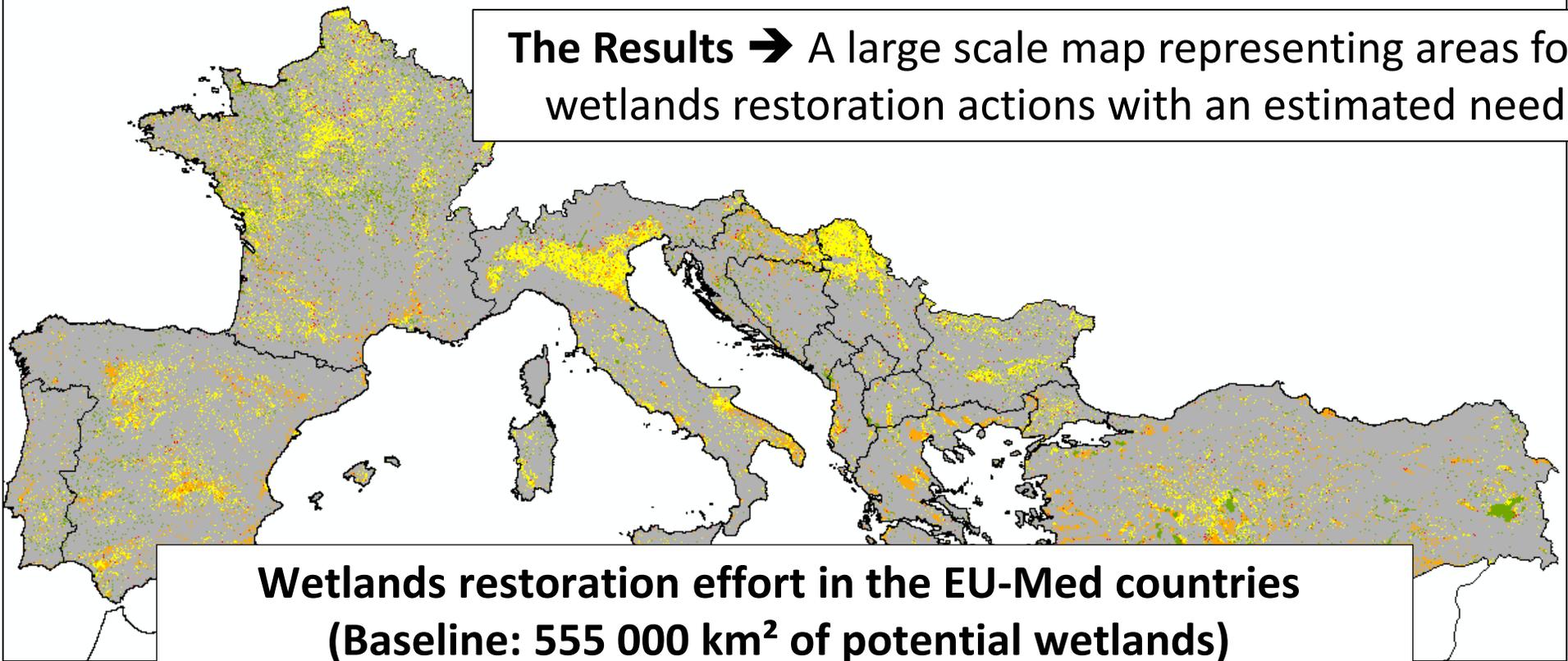
Experts-based definition of wetlands restoration effort depending on the current LULC class

All Med Countries (Northern part)

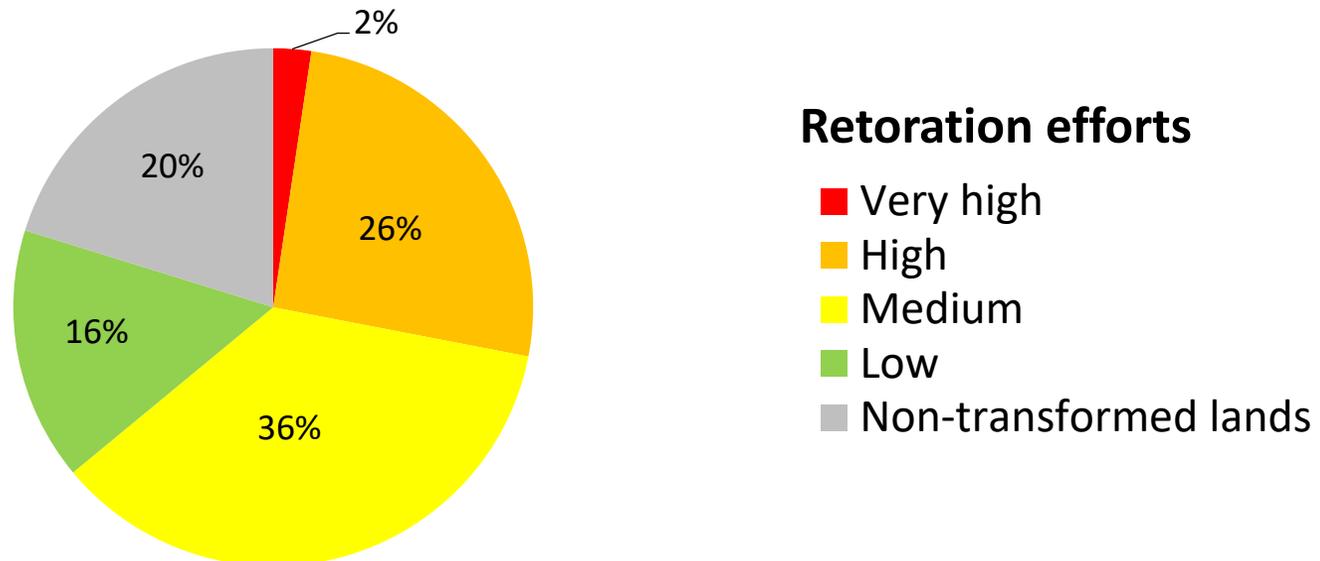
Retoration effort costs	Area (km ²)	% PWA Baseline
Very high	13051.76	0.023514715
High	142617.35	0.256946679
Medium	199479.9	0.359393145
Low	87757.86	0.158109029
Non-transformed lands	112127.1	0.202013893

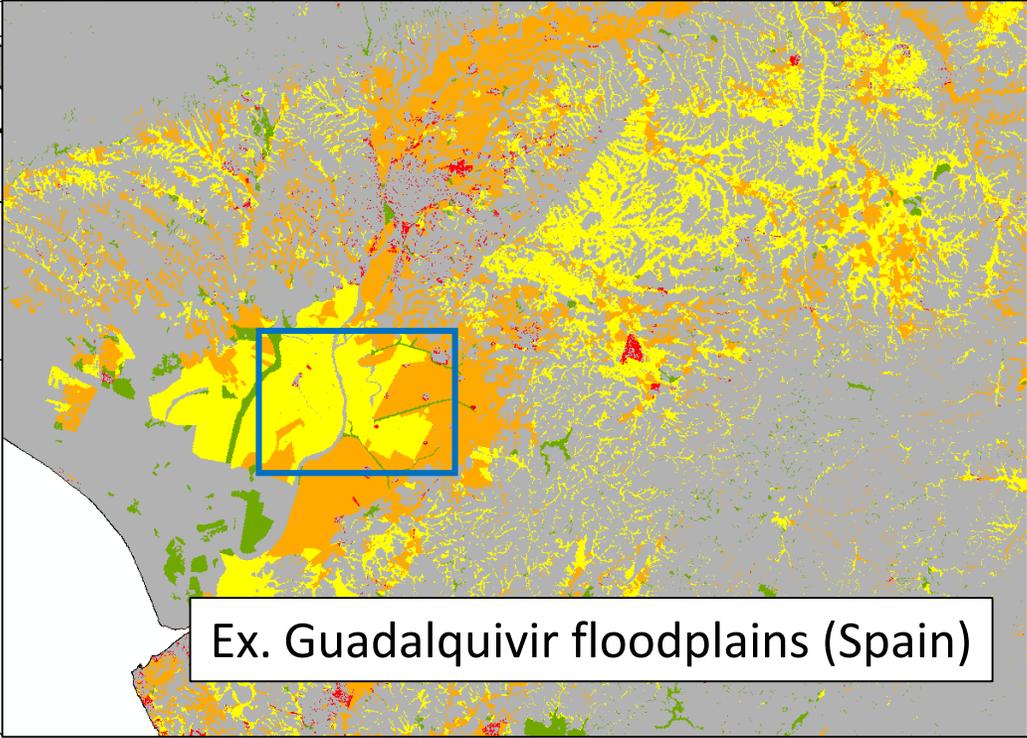
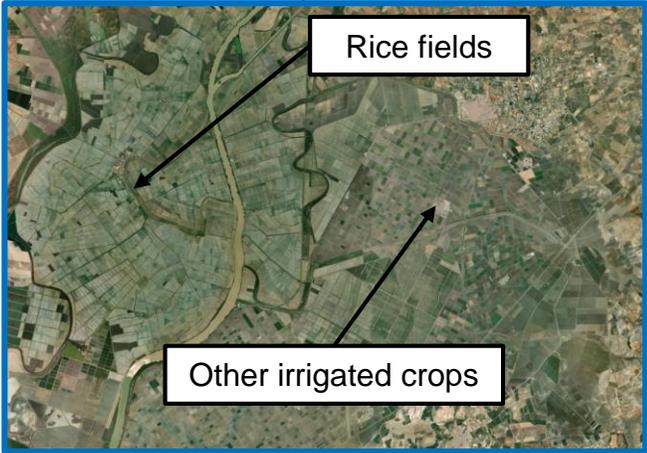
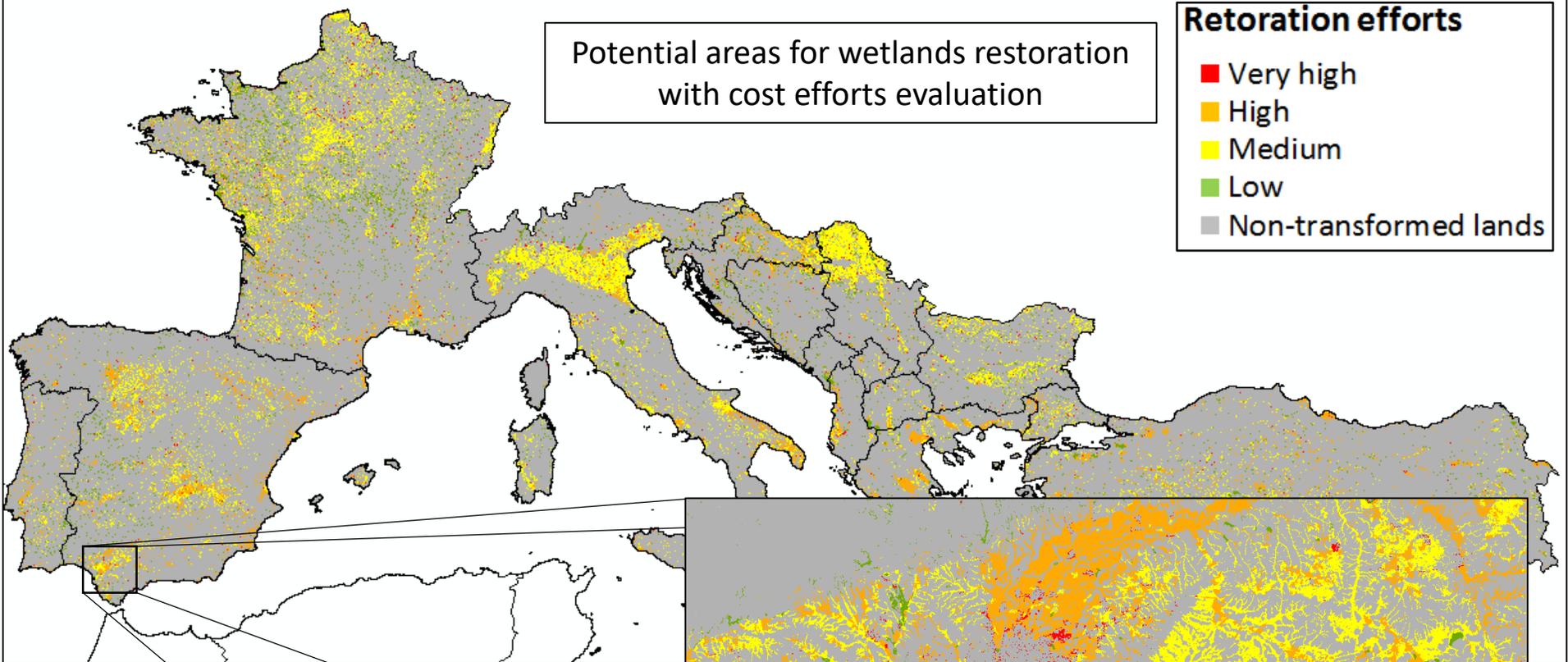


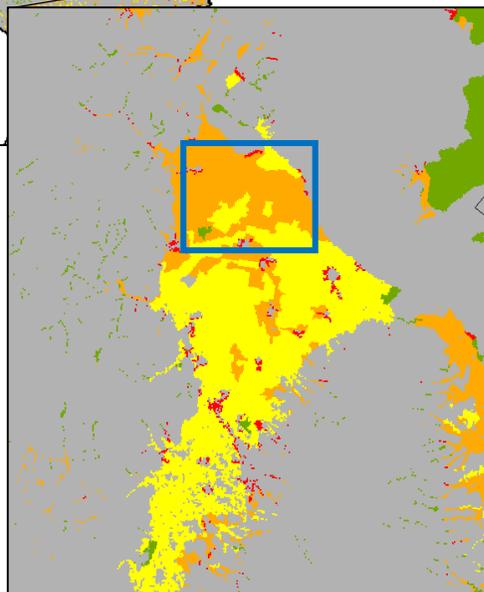
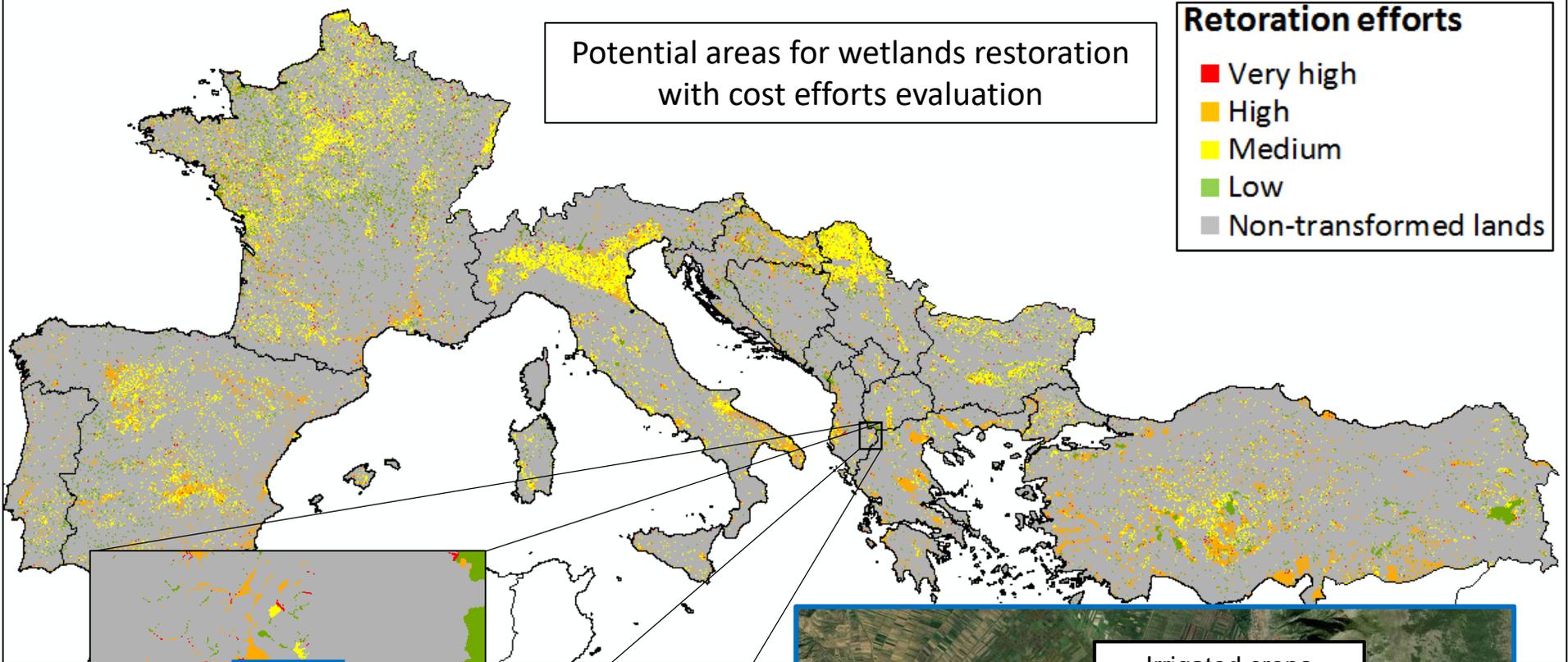
The Results → A large scale map representing areas for potential wetlands restoration actions with an estimated needed effort



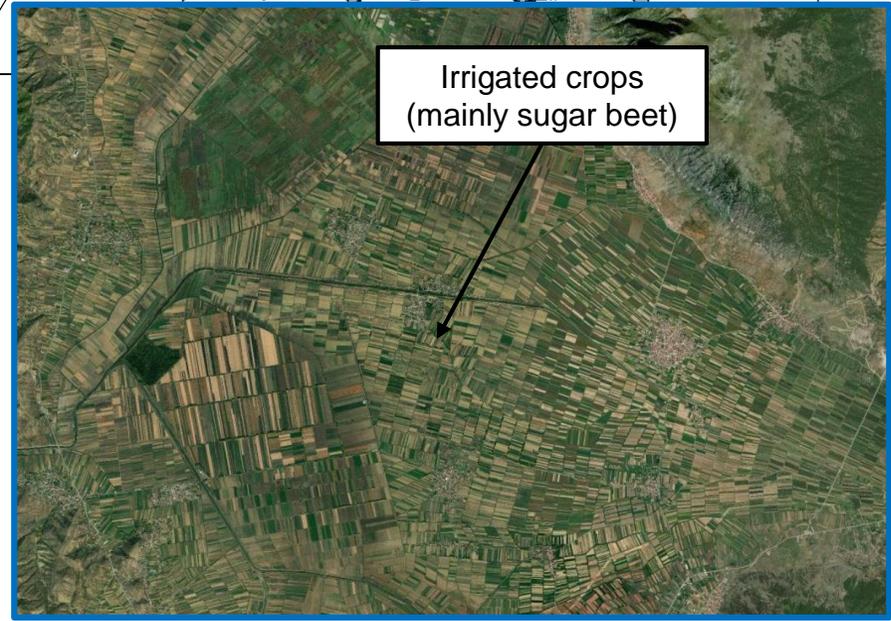
**Wetlands restoration effort in the EU-Med countries
(Baseline: 555 000 km² of potential wetlands)**

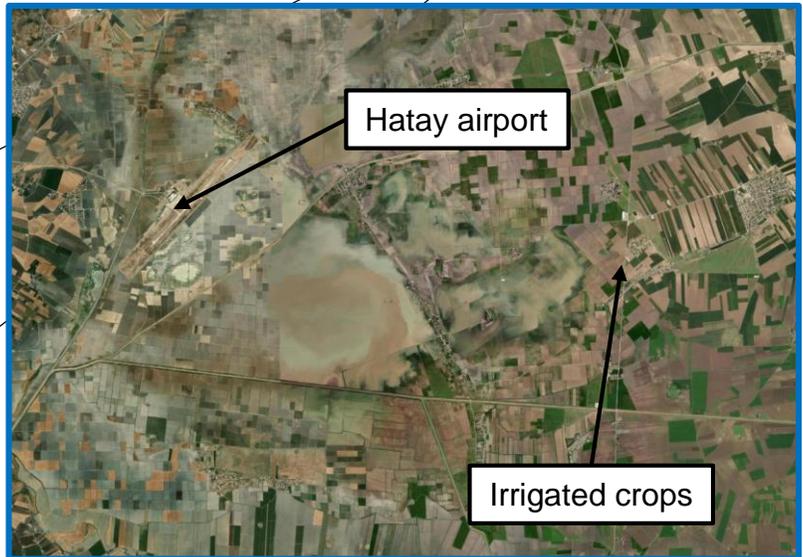
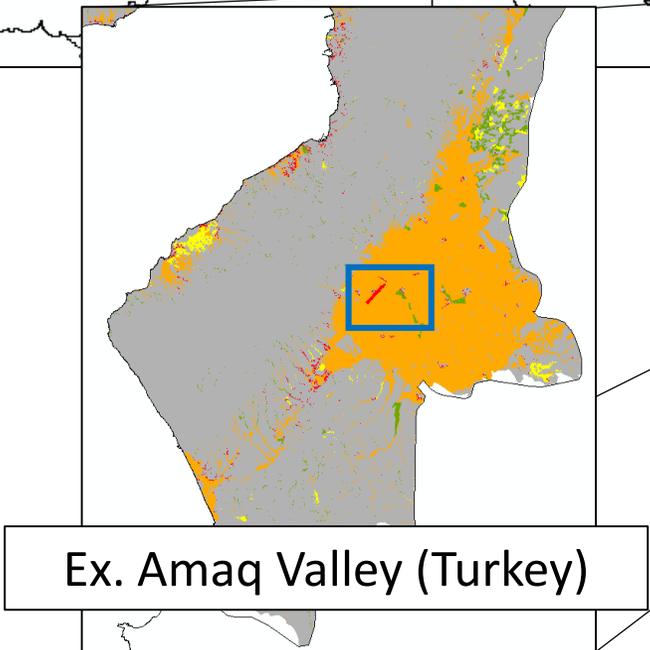
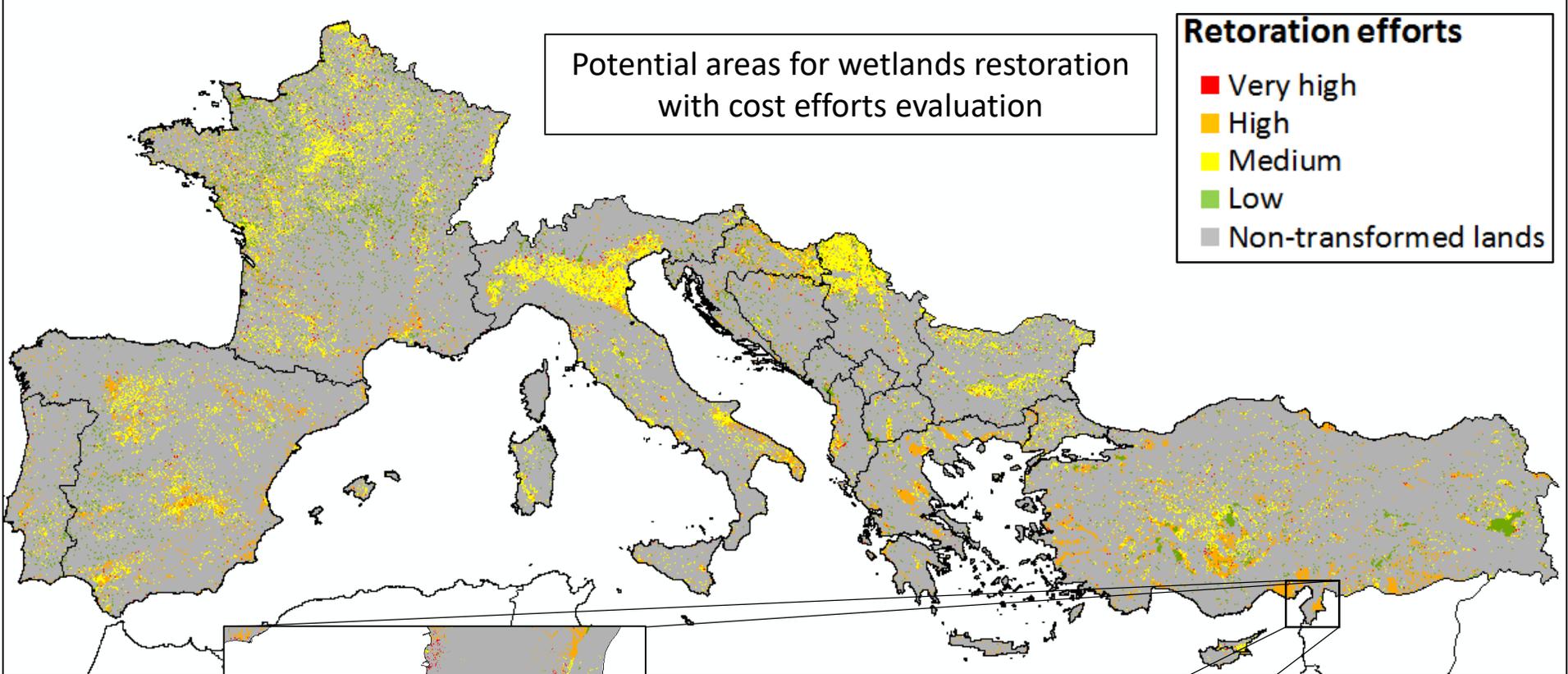


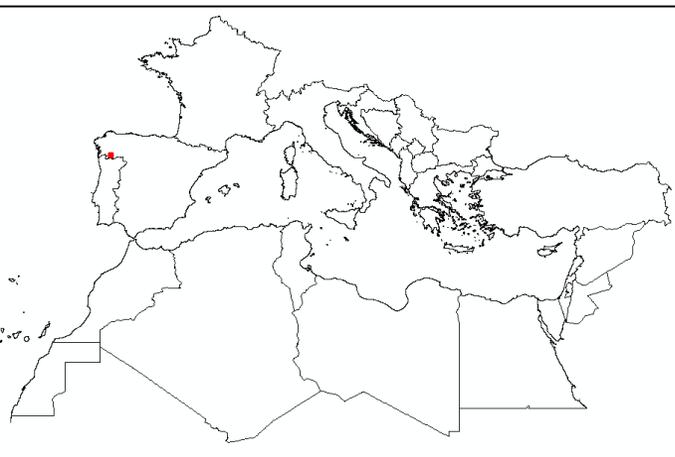
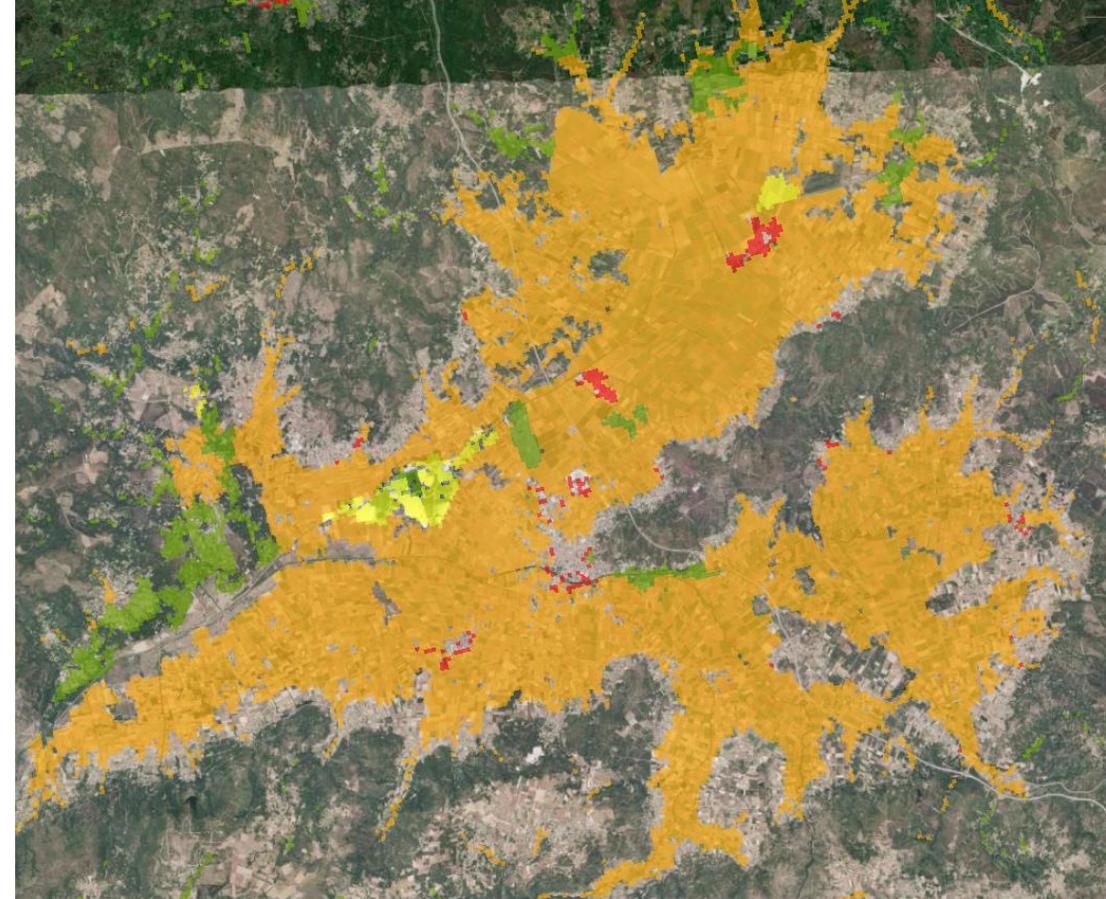
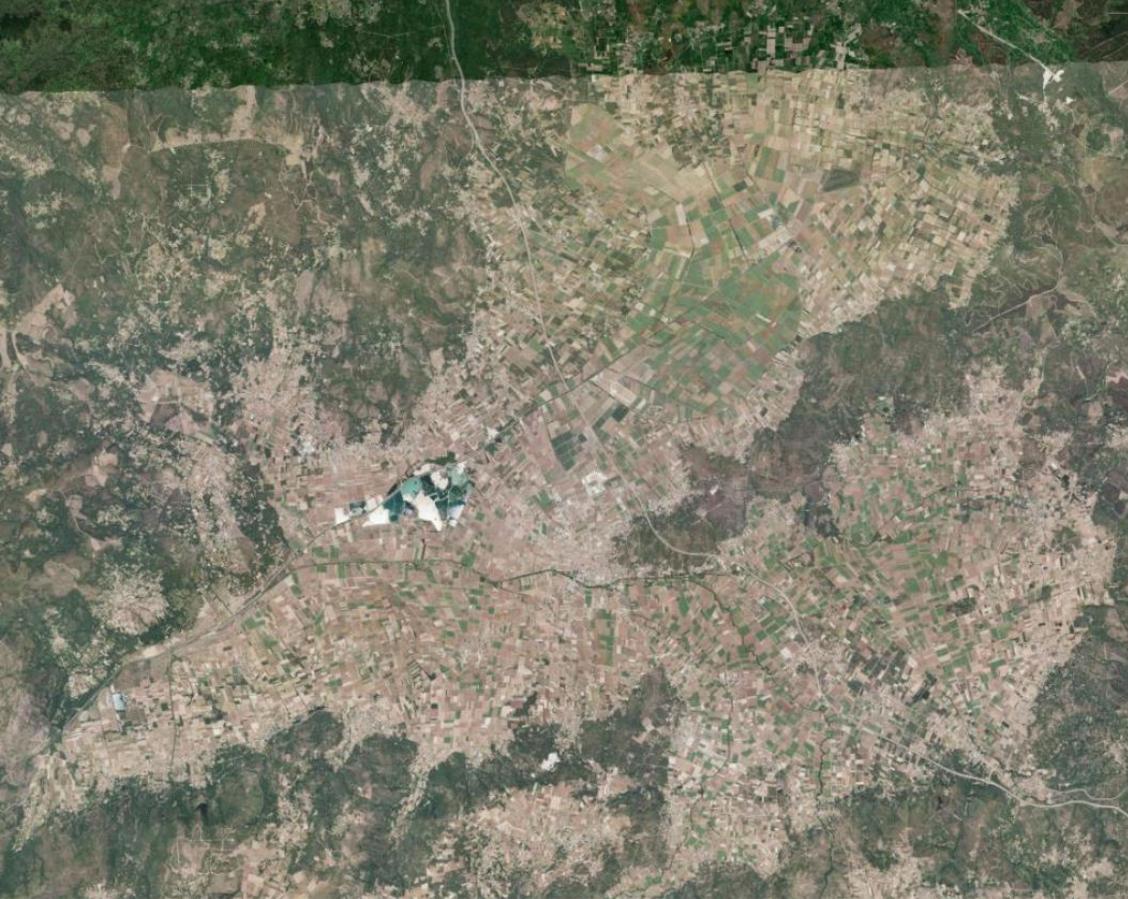




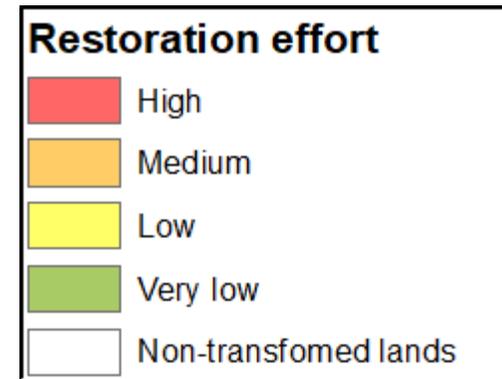
Ex. Maliqi Marshes (Albania)

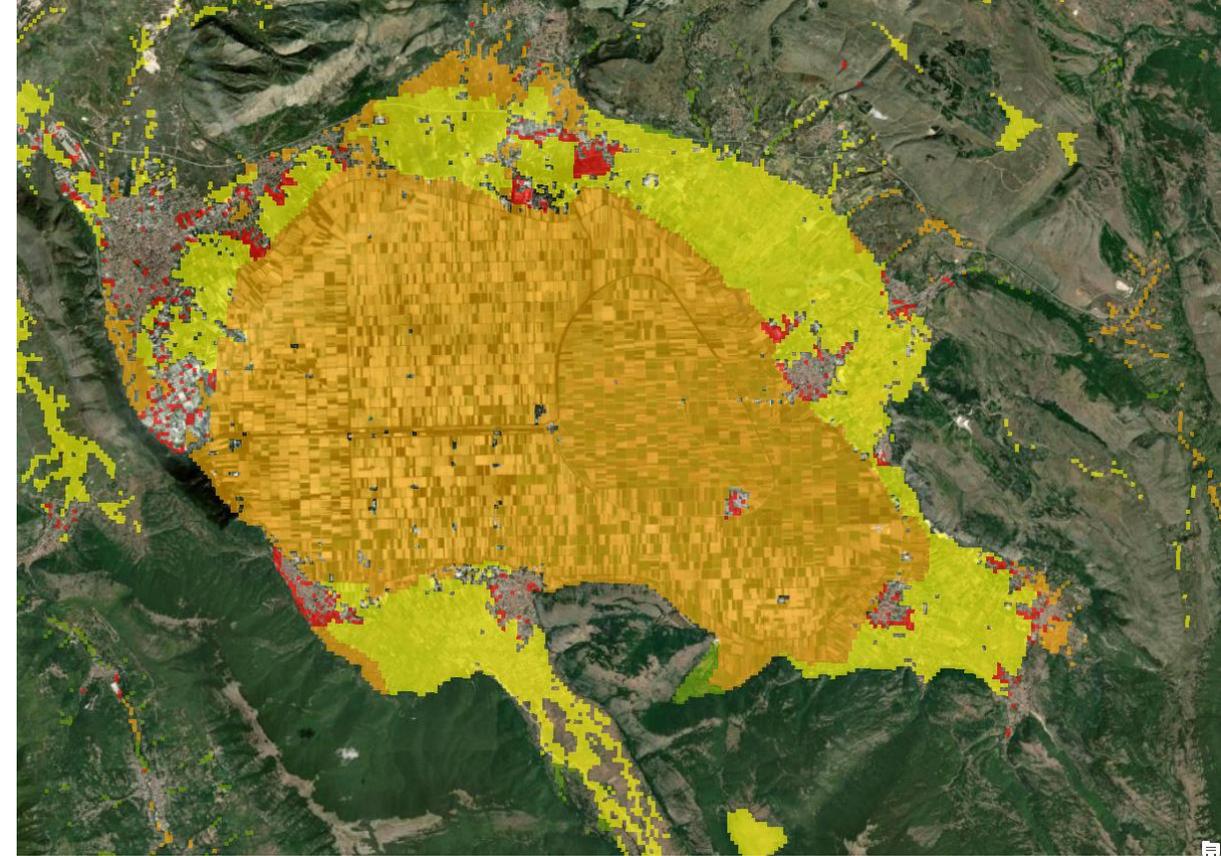
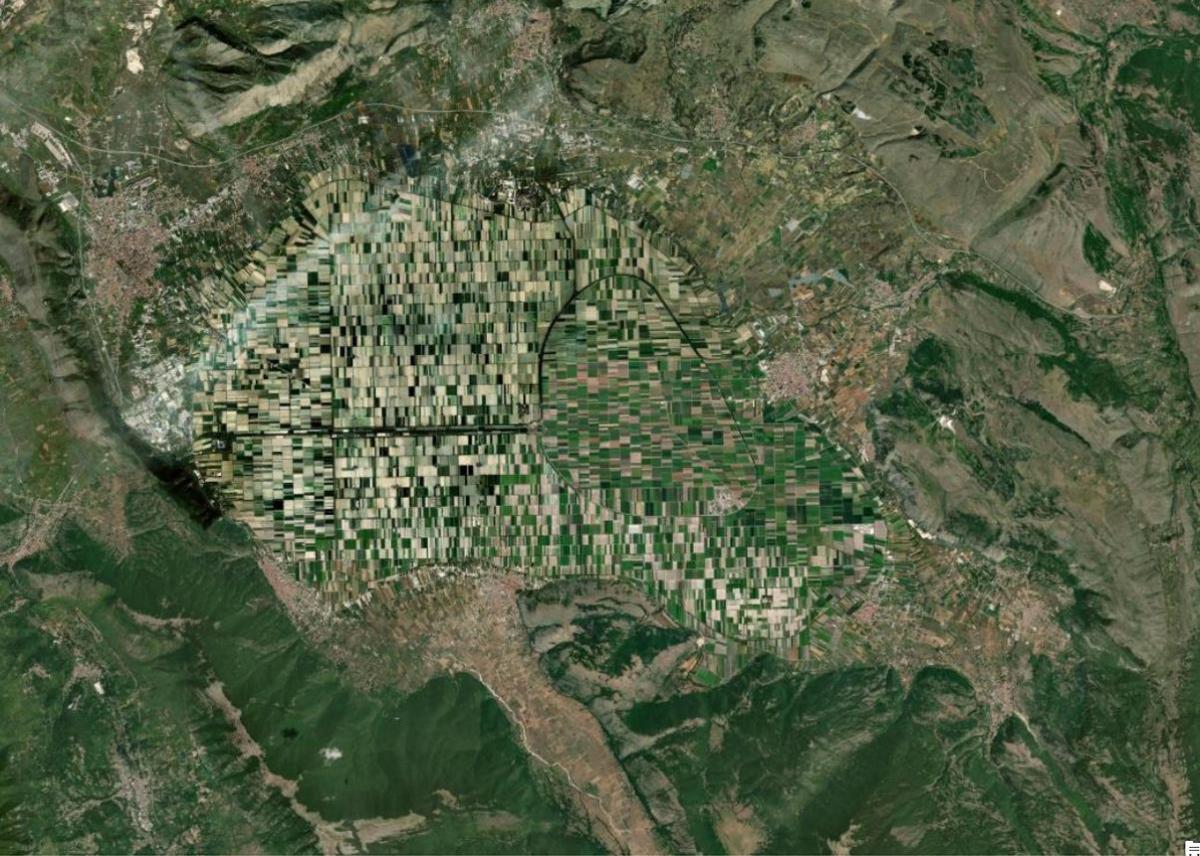




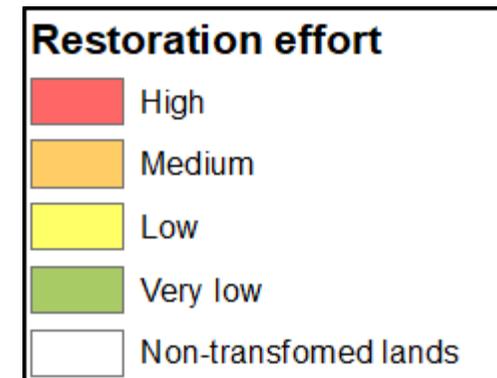
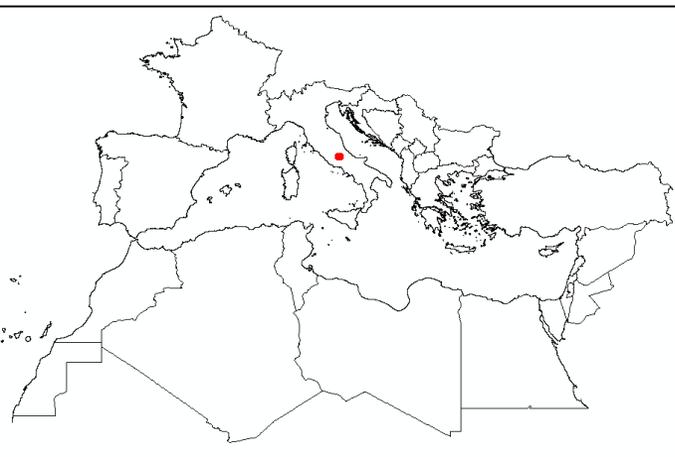


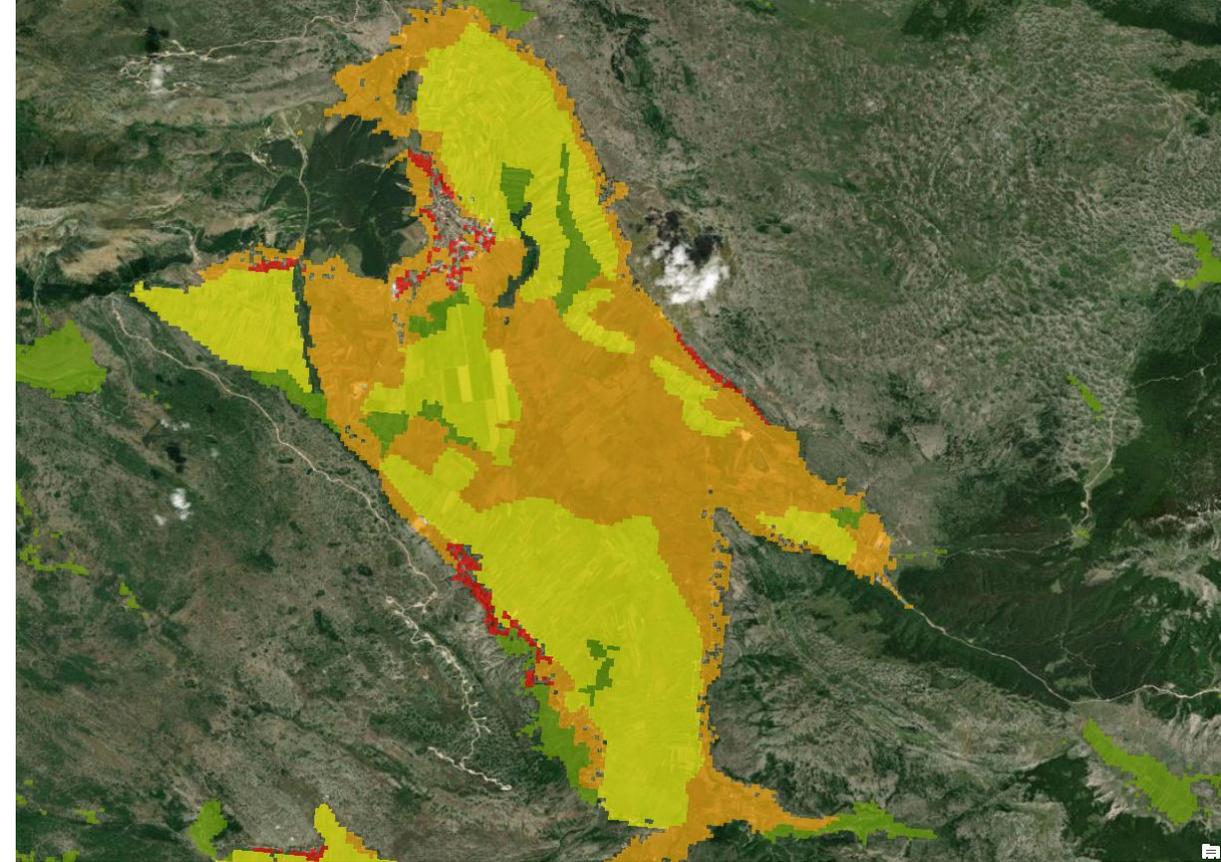
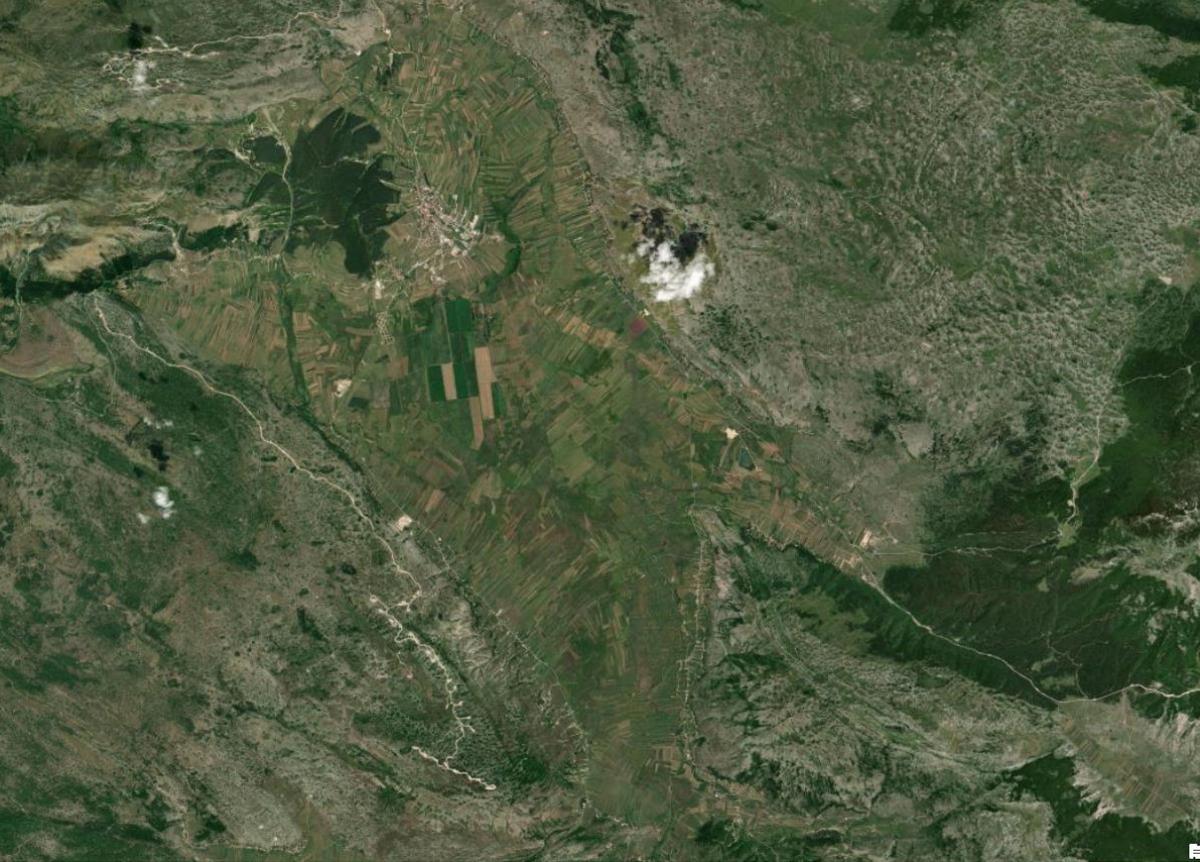
Antela (Spain)



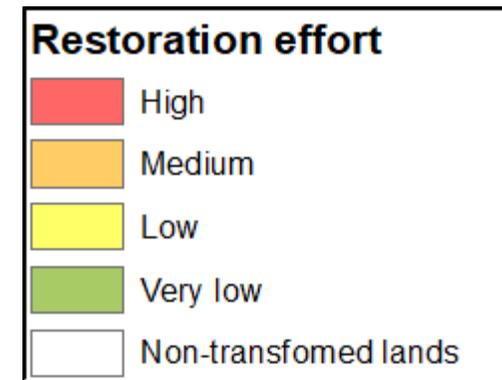
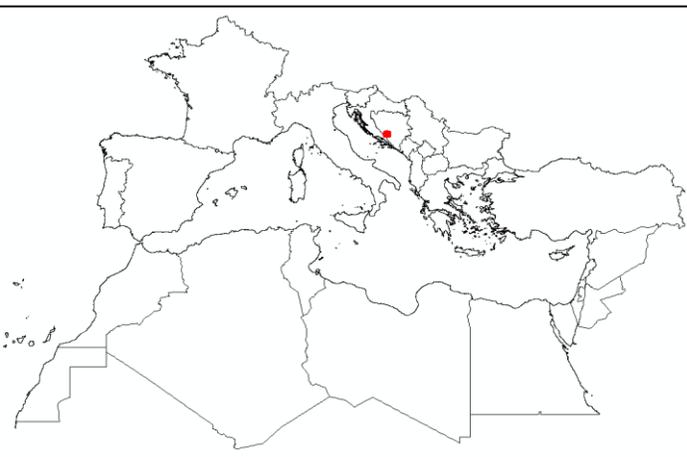


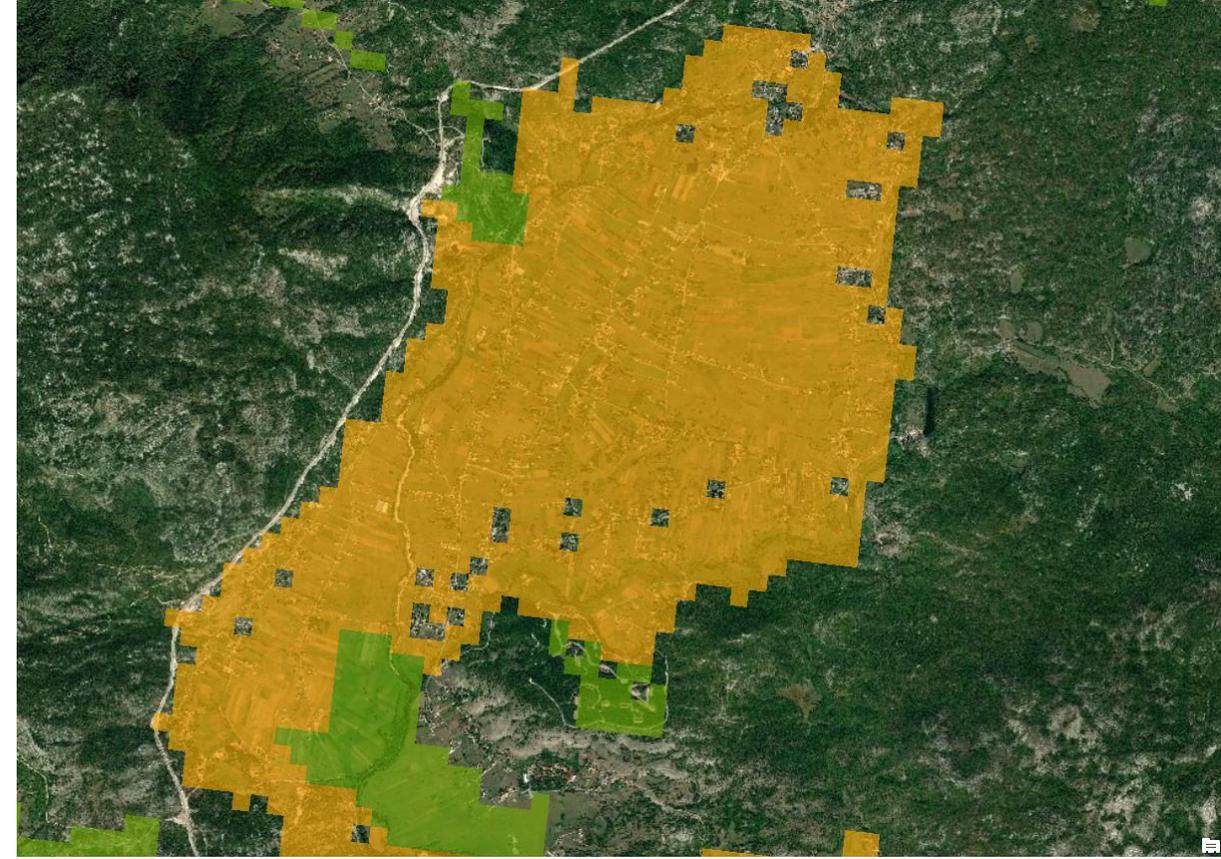
Ancient Fucine (or *Fucino*) Lake (Italy)



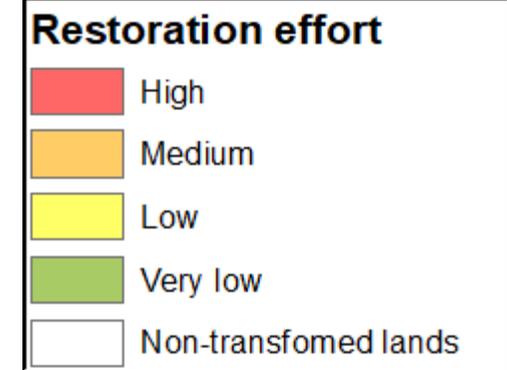
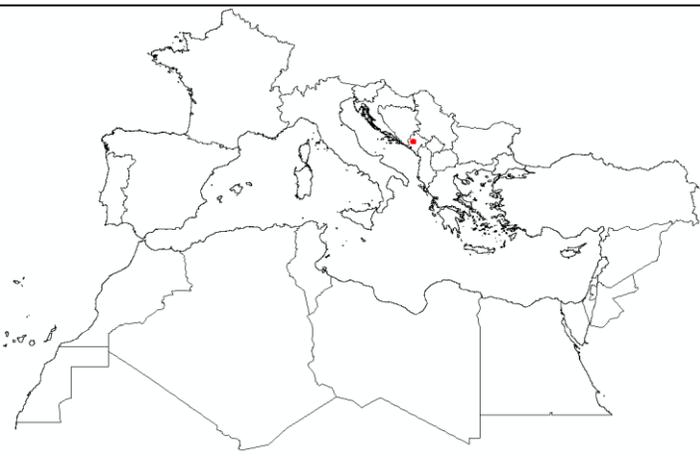


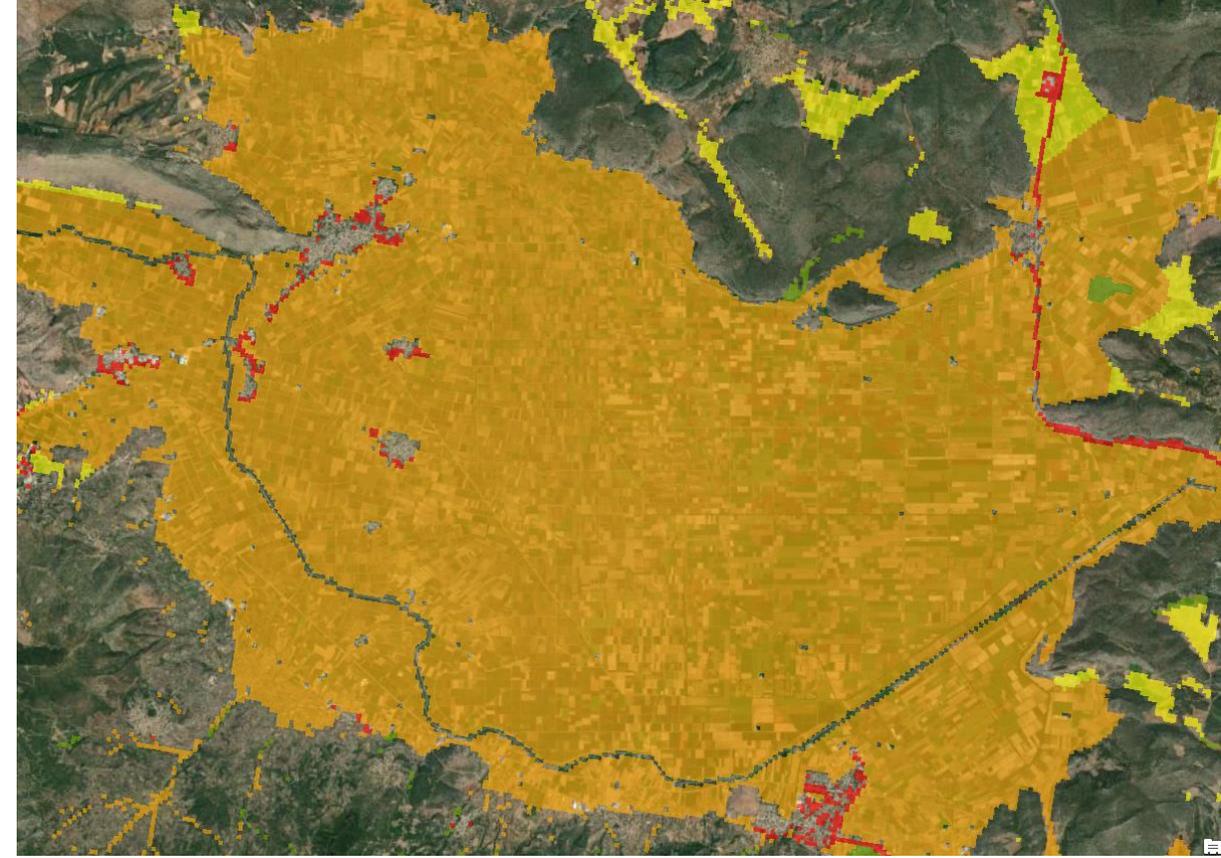
Ćavarov Stan (Bosnia & Herzegovina)



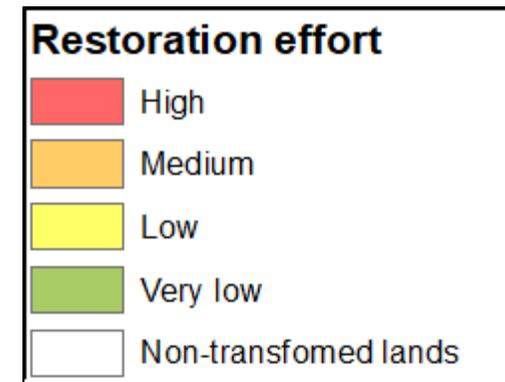
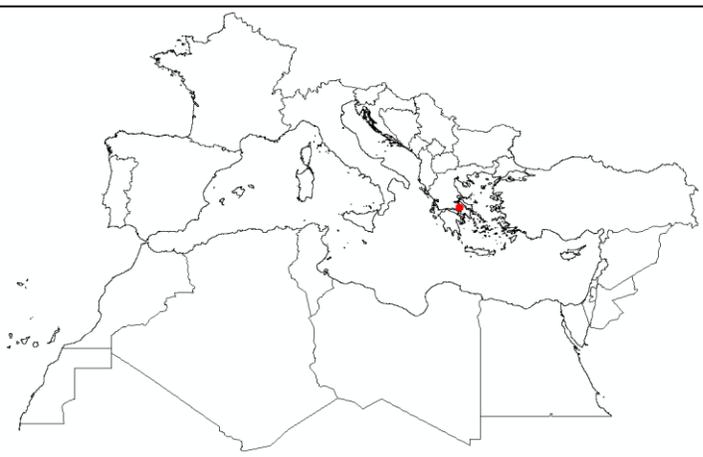


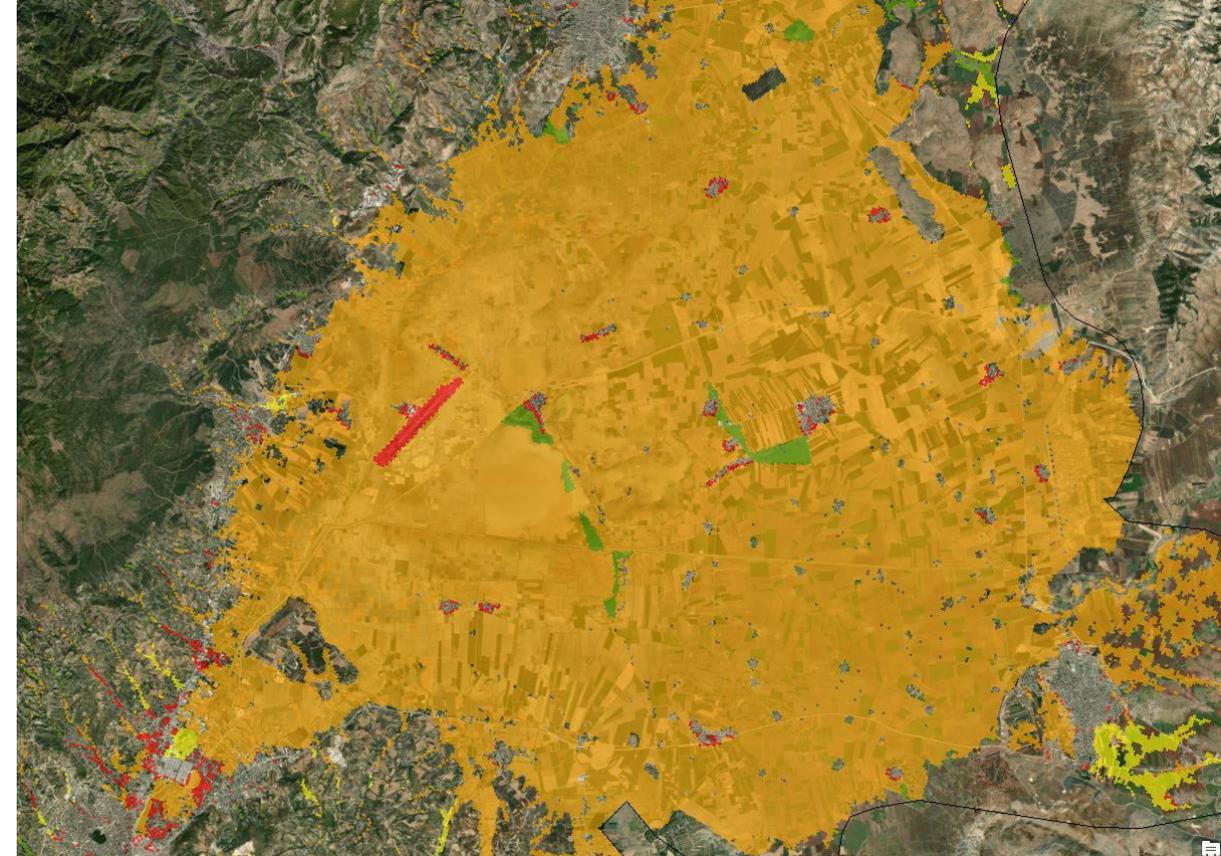
Rastovac and Zeta river floodplain (Montenegro)



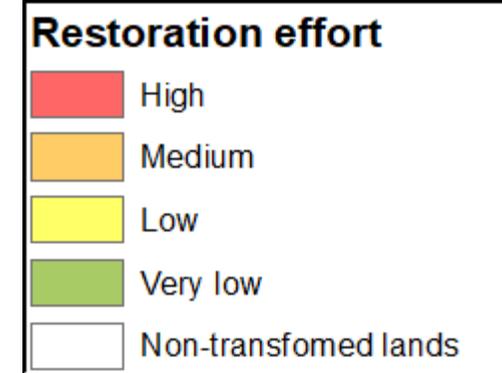
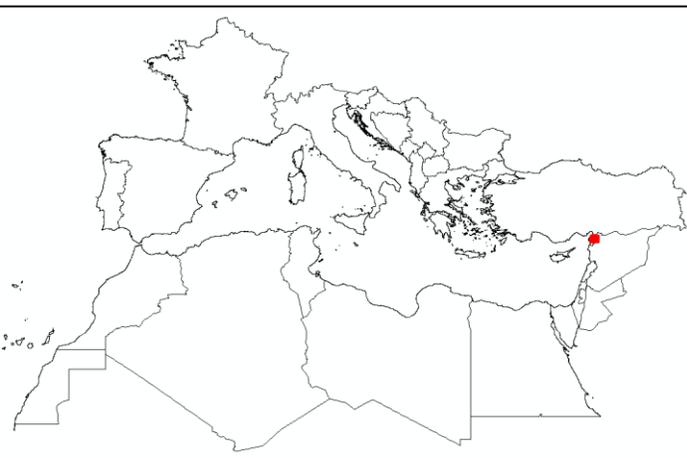


Ancient Lake Copais (Greece)





Ancient Lake Amik or the Lake of Antioch (Turkey)



**Hundreds of other potential candidates could be identified
based on this large scale mapping approach**



Thank you

Contact :

Tour du Valat | Le Sambuc, 13200 Arles - France

www.tourduvalat.org / www.medwetlands-obs.org

Anis Guelmami | Tel. +33 4 90 97 06 32 / Email guelmami@tourduvalat.org