



Table S1 Detailed description of the vegetation dataset with number of presence records for IAS for Lazio and Molise.

			Lazio	Molise
	Total plots		505	163
	Invaded plots		111	36
	Agave americana	n. of presence records	30	-
	Carpobrotus acinaciformis		99	-
IAS	Carpobrotus edulis		10	-
	Erigeron Canadensis L.		-	28
	Oenothera stucchii Soldano		_	12

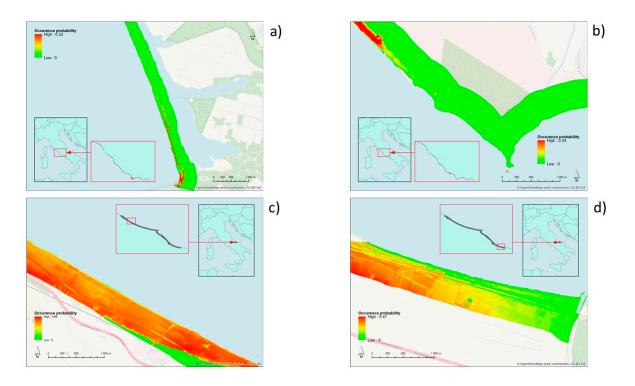
Table S2 Detailed description of the land cover type with their relative attribution to EU – Habitat types. The CORINE land cover legend has been expanded to a fourth level of detail for natural and semi-natural cover types. The natural and semi-natural terrestrial cover types are in bold while the coastal dune habitats are signed by asterisks.

CORINE	CORINE		
Code	Description	Detailed description	Abbreviations
1.	Artificial	Artificial areas including: urban fabrics; industrial,	ART
	surfaces	commercial and transport units; mine, dump and	
		construction sites; artificial non agricultural vegetated	
		areas.	
2.	Agricultural	Agricultural land, including: all types of arable land,	AGR
	areas	permanent crops, pastures and heterogeneous	
		agricultural areas.	
3.1.2.1.	Reforestation	Reforestation on coastal dunes mainly with <i>Pinus</i> .	REF
3.2.3.1.	Mediterranean	Woody Dune Vegetation growing on fixed dune.	WDV
	macchia*	Includes the EU - Habitats: 2250 - *Fixed coastal dunes	
		with Juniperus spp.; 2260 - Cisto-Lavenduletalia dune	
		sclerophyllous scrubs.	
3.2.4.1.	Semi-natural	Semi-natural woody vegetation: bushy vegetation with	SWV
	woody	scattered trees. Can represent either fore dune woodland	
	vegetation	degradation or forest regeneration/recolonisation.	
3.2.4.2.	Semi-natural	Semi-natural herbaceous vegetation: abandoned	SHV
	herbaceous	meadows and pastures with different degree of	
	ruderal	degradation or recolonisation.	
	vegetation		
3.3.1.1.	Open sand*	Beach with Pioneer annual Vegetation. Includes the	BPV
	D (11	EU - Habitat: 1210 - Annual vegetation of drift lines.	
3.3.1.2.	Partially	Herbaceous Dune Vegetation growing on fore dune.	HDV
	vegetated	Includes the EU - Habitats: 2110 - Embryonic shifting	
	dunes and	dunes; 2120 - Shifting dunes along the shoreline with	
	densely vegetated	Ammophila arenaria; 2230 - Malcolmietalia dune grasslands.	
	dunes*	grassianus.	
4.1.1.	Inland marshes	Inland wetlands and marshes. Non forested areas of low	WET
7.1.1.	mana marshes	lying land flooded by fresh stagnant or circulating	** 1
		water. Covered by low ligneous, semi-ligneous or	
		herbaceous vegetation. Includes a fine mosaic of inland	
		wetlands EU - Habitats.	

5.2. Marine waters

Adriatic Sea.

Figure S3 Invasive species occurrence probability predicted by the binomial GLM. The prediction models are obtained by the most parsimonious (i.e. lowest AIC) models selected by stepAIC function, by only including at least weakly significant terms. We decided to exclude highly insignificant terms as these only had negligible effect on model parameters but complicated the production of prediction maps (e.g. it is practically impossible to meaningfully interpolate species richness to a fine-resolution raster covering the whole area). In Lazio (Figs. A and B), this led to the model IS~ART²+BPV²+dist_roads²+dist_sea²+elev², with R² being 0.32. In Molise (Figs. C and D), the prediction model was IS~BPV + dist_roads + elev², with R² being 0.25. Two arbitrarily selected sample areas were chosen in both regions to show the spatial predictions.



SEA