Author	Link	Citation	Year	Member State	Region	Topics		Biome(s)	Aim/Results
							ance		
									Protected area networks represent one of the mainstays of worldwide conservation policies and play a key role
		Abellán, P., Sánchez-Fernández, D. (2015) A							in the protection of biodiversity. While numerous studies have evaluated the extent to which reserves fulfil their
		gap analysis comparing the effectiveness of							role of protecting biodiversity in Europe at national and subnational scales, their performance across the whole
		Natura 2000 and national protected area							of Europe has seldom been assessed. Here we assess the effectiveness of nationally designated protected areas
		networks in representing European							and the pan-European Natura 2000 network in representing and maintaining over time European amphibian and
		amphibians and reptiles. Biodiversity and							reptile biodiversity using a comprehensive and newly available species occurrence dataset. Overall, our results
Abellán et al.		Conservation 24, 1377-1390.	2015			Effectiveness	1	Terrestrial	show that often national protected areas and Natura 2000 sites perform poorly in representing amphibians and
		Assis, J., Fragkopoulou, E., Serrão, E.A., Horta							the increasing number of agreements aiming for effective and well-connected networks of Marine Protected
		e Costa, B., Gandra, M., Abecasis, D. (2021)							Areas . However, the extent to which individual MPAs are connected remains mostly unknown. Here, we use a
		Weak biodiversity connectivity in the							biophysical model tuned with empirical data on species dispersal ecology to predict connectivity of a vast
		European network of no-take marine			Multiple				spectrum of biodiversity in the European network of marine reserves . Our results highlight the correlation
		protected areas. Science of the Total			geographic				between empirical propagule duration data and connectivity potential and show weak network connectivity and
Assis et al.		Environment 773.	2021		regions	Connectivity	1	Marine	strong isolation for major ecological groups, resulting from the lack of direct connectivity corridors between
						,			This concept moves beyond traditional approaches of «nature protection and preservation», focusing on the
		Cunha, N.S., Magalhães, M.R. (2019)							ecosystemic approach and the «continuum naturale», emphasising the quality or potentiality of physical
		Methodology for mapping the national							components, allowing the articulation with the nature conservation and atrisk areas. In addition, this study
		ecological network to mainland Portugal: A							shows that the existing protected areas in Portugal, namely Natura 2000 and classified protected areas, are
		planning tool towards a green infrastructure.			Southern	Connectivity,			insufficient to ensure landscape ecological balance and avoid fragmentation. The main goal is to develop a
Cunha et al.		Ecological Indicators 104, 802-818.	2019	Portugal	Europe	OECMs	1	Terrestrial	methodology to map a National Ecological Network for mainland Portugal, establish the theoretical framework
	i i	de Castro-Pardo, M., Pérez-Rodríguez, F.,							in this paper, we propose a sequentially participative model for planning in transboundary protected areas
		Martín-Martín, J.M., Azevedo, J.C. (2019)							based on the Analytical Hierarchy Process, Goal Programming and Monte Carlo simulation. The model was
		Modelling stakeholders' preferences to							developed with two scenarios: one determinist and another with simulations that provide a multi-level ranking
		pinpoint conflicts in the planning of							of the most relevant goals according stakeholders' preferences to establish priorities in the planning of
de Castro-Pardo et		transboundary protected areas. Land Use			Southern				protected areas.
al.		Policy 89, 104233.	2019	Spain, Portugal	Europe	Transboundary	1	Terrestrial	Moreover, the proposed methodology is capable of identifying conflicts, providing a comparison between the
	1			opani, i artagai					The connectivity of protected areas, such as the Natura 2000 network, is crucial for maintaining healthy
		de la Fuente, B., Mateo-Sánchez, M.C.,							ecosystems and for the delivery of ecosystem services into the wider landscapes in which they are embedded.
		Rodríguez, G., Gastón, A., Pérez de Ayala, R.,							We here present a novel combination of methods for connectivity analysis across heterogeneous landscapes,
		Colomina-Pérez, D., Melero, M., Saura, S.							integrating graph-based analyses, least-cost path modelling and the Probability of Connectivity metric, and apply
		(2018) Natura 2000 sites, public forests and							these methods to the network of Natura 2000 woodland sites in mainland Spain. We deliver key insights on the
		riparian corridors: The connectivity backbone							connectors between Natura 2000 sites: their location and width , their prioritization in conservation and
		of forest green infrastructure. Land Use			Southern				restoration scenarios involving different land uses, and the bottlenecks found along them. Based on these
de la Fuente et al.		Policy 75, 429-441.	2018	Spain	Europe	Connectivity	1	Terrestrial	results, we characterize the landscapes traversed by the connectors within and outside the protected sites to
de la racinte et an		1 0110 (75) 125 1 121	2010	оран	Luiope	connectivity	_	rerreseriai	Marine protected areas socio-ecological effectiveness depends on a number of management and governance
		Di Franco, A., Hogg, K.E., Calò, A., Bennett,							elements, among which stakeholder engagement and community support play key roles. Collaborative
		N.J., Sévin-Allouet, M.A., Esparza Alaminos,							conservation initiatives that engage stakeholders in action research and knowledge co-production processes can
		O., Lang, M., Koutsoubas, D., Prvan, M.,							enhance management and governance of MPAs. To design effective strategies aimed at reconciling biodiversity
		Santarossa, L., Niccolini, F., Milazzo, M.,							conservation and management of sustainable human uses, it is key to assess how local communities respond to
		Guidetti, P. (2020) Improving marine							such initiatives and identify the set of contextual factors, institutional, local and individual, potentially affecting
		protected area governance through		Croatia, France,	Multiple				these responses. This paper presents the approach and results of one such initiative, spanning 6 EU countries
		collaboration and co-production. Journal of		Greece, Italy,	geographic				and 11 MPAs in the Mediterranean
Di Franco et al.		Environmental Management 269.	2020	Slovenia, Spain	regions	Effectiveness	1	Marine	Sea, focusing on small-scale fishers as key MPA users. Through a collaborative project, managers and fishers
Billianco ce an		Environmental Management 2001	2020	olovelina, opain	105.01.0	Z. I COLL V C. I COS	_	· · · · · · · · · · · · · · · · · · ·	The Natura 2000 (N2k) network is an important site-based protection tool for the
		Fortuna, C.M., Cañadas, A., Holcer, D.,							protection of biodiversity in Europe. However, for highly mobile and adaptable marine
		Brecciaroli, B., Donovan, G.P., Lazar, B., Mo,							species, such a tool might not be the most effective way to achieve conservation
ĺ		G., Tunesi, L., Mackelworth, P.C. (2018) The							objectives, unless this includes a broader consideration of the direct threats to these
ĺ		coherence of the European Union Marine		Italy, Albania,					species throughout their range. Considering that the N2k network requires that a
		Natura 2000 network for wide-ranging		Slovenia, Croatia					"significant proportion" of 60% of the population be under protection, this creates a
	1	charismatic species: A mediterranean case		and	Southern	Connectivity,			challenge for the conservation of these wide-ranging species. This paper reviews the
Fortuna et al.		study. Frontiers in Marine Science 5.	2010	Montenegro	Europe	Transboundary	1	Marine	efficacy of the N2k network as it is presently implemented within the Adriatic Sea for
i ortuna et al.	1	Friedrichs, M., Hermoso, V., Bremerich, V.,	2010	montenegro	Luiope	rransboandary	1	14101111C	The world's largest network of protected areas—Natura 2000 (N2000)—has been implemented
		Langhans, S.D. (2018) Evaluation of habitat							to protect Europe's biodiversity. N2000 is built upon two cornerstones, the Birds
	1	protection under the European Natura 2000				Designation,			Directive, which lists 691 bird species (plus one additional bird genus with no further classification) and the
	1	conservation network – The example for			Wostorn	Connectivity,			Habitats Directive, which lists next to a variety of species, 233 habitat types to be protected. There is evidence of
Eriodriche et al	1	· ·	2010	Cormany	Western			Torroctrial	, , , , , , , , , , , , , , , , , , , ,
Friedrichs et al.	I	Germany. PLoS One 13.	2018	Germany	Europe	Effectiveness	1	Terrestrial	the positive impact of the Directives on the EU's biodiversity, although the overall improvement reported for

		1	1	1	I		1	The Netwer 2000 network is an ambitious Fundament and at mature agreement in
	Cómara de Dómara Handi A							The Natura 2000 network is an ambitious European project aimed at nature conservation.
	Gómez-pazo, A., Pérez-alberti, A.,							Nevertheless, the identification and delimitation of habitats is a complex task and simultaneously essential for
	Fraga-santiago, P., Souto-souto, M., Otero,							correct ecosystem management. In this study we compared the current habitat delimitation and designation and
	X.L. (2020) Contribution of gis and							the results produced by Geographic Information Systems and geochemical proxies for the categorization of four
	geochemical proxies to improving habitat							coastal lakes in Galicia .
	identification and delimitation for the natura							The findings reveal important errors in the delimitation/designation. The first error is the designation of all
	2000 network: The case of coastal lagoons in							four lakes as Coastal lagoons , when geochemical data indicate that two of these lakes were always freshwater
	galicia (nw iberian peninsula). Applied			Southern			Terrestrial &	lakes and should consequently be classified as Natural eutrophic lakes . Another error is of conceptual origin,
Gómez-pazo et al.	Sciences (Switzerland) 10, 1-20.	2020	Spain	Europe	Designation	1	Marine	because the lakes comprise a unique functional system composing of dierent environmental units .
								A number of policy measures have been adopted to cope with ongoing ocean degradation. Marine protected
	Guidetti, P., Addis, P., Atzori, F., Bussotti, S.,							areas are among them. MPAs and their coverage have increased worldwide, including in EU waters. Natura 2000
	Calò, A., Cau, A., Culioli, J.M., De Lucia, G., Di							sites are at the core of the EU biodiversity conservation strategy and have been established to protect habitats
	Franco, A., Di Lorenzo, M., Follesa, M.C.,							and species included in two EU directives. Besides their specific objectives, their potential to contribute to an
	Gazale, V., Massaro, G., Mura, F., Navone, A.,							ecosystem-wide conservation and their complementarity with other national and supranational initiatives have
	Pala, D., Panzalis, P.A., Pusceddu, A., Ruiu, A.							been called into question.
	(2019) Assessing the potential of marine							Using visual censuses on rocky reefs, the biomass of whole fish assemblages and of a set of ecologically
	Natura 2000 sites to produce ecosystem-							important species have been assessed to evaluate the potential ecosystem-wide effectiveness of Nat2000
	wide effects in rocky reefs: A case study from							marine sites located along the coasts of Sardinia .
	Sardinia Island (Italy). Aquatic Conservation:							The assessment was performed in six fully protected MPAs, in 12 Nat2000 sites established or extending at sea,
	Marine and Freshwater Ecosystems 29, 537-			Southern				and in 18 adjacent unprotected control sites.
Guidetti et al.	545.	2019	Italy	Europe	Effectiveness	1	Marine	Results show that the highest fish biomasses are observed in fully protected MPAs.
								However, all reports show conservation efforts are falling short of their objectives and the status of biodiversity
	Hermoso, V., Morán, O., ntilde, ez, A.,							in theEU continues to decline. Here, we propose four key avenues for the next Strategy, currently under
	Canessa, S., Brotons, L. (2019) Four ideas to							discussion, to make EUconservation efforts more effective. First, we suggest the next Biodiversity Strategy
	boost EU conservation policy as 2020 nears.				EU Biodiversity			should ensure legal coverage for threatened species not listed in the EUHabitats and Birds Directives, which
Hermoso et al.	Environmental Research Letters 14.	2019			Strategy 2030	1	Terrestrial	currently cover only 16.4% of all threatened species. Second, halting biodiversity loss requires threatened
	Hoffmann, S., Beierkuhnlein, C., Field, R.,							Directives are the most important policies for conservation strategy, legally preserving Europe's characteristic,
	Provenzale, A., Chiarucci, A. (2018)							rare, endemic and threatened biota. We used occurrence data for species listed in the directives' Annexes to
	Uniqueness of protected areas for							assess the uniqueness of major PAs in the EU; this is important for preserving the EU's focal species. We
	·							
	conservation strategies in the European	2040			=			developed a novel, multifunctional approach to calculate different metrics of conservation value that represent
Hoffmann et al.	Union. Scientific Reports 8, 1-14.	2018	All Member States		Effectiveness	1	Terrestrial	different components of species diversity within the PAs, involving inventory diversity, deviation from the
								Connectivity is frequently cited as a vital component of Marine Protected Area networks and was formally
	Jenkins, T.L., Stevens, J.R. (2018) Assessing							identified as one of five key principles for marine network design in European waters. Yet, without the ability to
	connectivity between MPAs: Selecting taxa			Multiple				demonstrate connectivity, it is impossible to be certain that sites designated within a MPA network do in fact
	and translating genetic data to inform policy.			geographic				constitute a network, when they may –irrespective of the diversity and rarity of the taxa within them– be in
Jenkins et al.	Marine Policy 94, 165-173.	2018		regions	Connectivity	1	Marine	reality a set of unlinked habitats and associated species assemblages. However, the process of assessing
								To help maintain and restore marine populations and communities MPAs should form ecologically coherent
	Jonsson, P.R., Moksnes, PO., Corell, H.,							networks. How to estimate and implement connectivity in MPA design remains a challenge. Here a new
	Bonsdorff, E., Nilsson Jacobi, M. (2020)							theoretical framework is presented based on biophysical modelling of organism dispersal, combined with a suite
	Ecological coherence of Marine Protected						I	of tools to assess different aspects of connectivity that can be integrated in MPA design. As a demonstration,
	Areas: New tools applied to the Baltic Sea			Multiple			I	these tools are applied to an MPA network in the Baltic Sea . The tools are based on the connectivity matrix,
					Docionation		I	
	network. Aquatic Conservation: Marine and	2022		geographic	Designation,			which summarizes dispersal probabilities, averaged over many years, between all considered areas in the
Jonsson et al.	Freshwater Ecosystems 30, 743-760.	2020		regions	Connectivity	1	Marine	geographic target area. The biophysical model used to estimate connectivity included important biological traits
							I	European Union in compliance with two directives (the so-called "Habitats Directive" and the "Birds Directive")
	Lai, S. (2020) Hindrances to effective						I	that underpin the Union's policies on biodiversity conservation. This study is aimed at assessing the
	implementation of the habitats directive in						I	implementation of the network by qualitatively analyzing how Special Areas of Conservation are being
	italy: Regional differences in designating						I	designated. Such designation process, which is being implemented, although with great delay, in a number of
	special areas of conservation. Sustainability			Southern			Terrestrial &	member states, entails the establishment of site-specific conservation measures that may be included within
Lai et al.	(Switzerland) 12.	2020	Italy	Europe	Designation	1	Marine	appropriate management plans or other development plans.
	i i			<u> </u>	Ĭ			As an instrument intended, amongst other things, to reduce transboundary conflicts, Transboundary Marine
	Li, S., Jay, S. (2020) Transboundary marine						I	Spatial Planning (TMSP) has gained significant attention by coastal nations and regions recently, especially in
	spatial planning across Europe: Trends and			Multiple			I	Europe. Rather than leading to a joint marine spatial plan, TMSP is more of a continuous process of
	priorities in nearly two decades of project				Connectivity		I	
11.0 1		2022	All Adams bass Ch. :	geographic	Connectivity,			transboundary cooperation. This paper discusses the understandings of TMSP, tracks current progress of TMSP
Li & Jay	work. Marine Policy 118, 104012.	2020	All Member States	regions	Transboundary	1	Marine	projects in Europe and examines their underlying priorities, so as to gain lessons and experience for the

			1	1	1			
								network of protected areas, is of paramount importance for the regional and national economy, supporting
	Lillebø, A.I., Teixeira, H., Morgado, M.,							harbour activities and maritime traffic, agriculture, commercial fisheries, aquaculture, manufacturing, tourism,
	Martínez-López, J., Marhubi, A., Delacámara,							sports and recreational activities. Current and foreseen changes connected to human activities, namely land and
	G., Strosser, P., Nogueira, A.J.A. (2019)							water uses and potential conflicts, in frame of environmental policies, sustainable economic development and
	Ecosystem-based management planning							human wellbeing require the implementation of ecosystem-basedmanagement planning processes considering
	across aquatic realms at the Ria de Aveiro							the connectivity across marine, transitional, freshwater, and terrestrial domains. The main objective is to
	Natura 2000 territory. Science of the Total			Southern			Terrestrial &	elaborate on the co-development of the EBM planning process across the threewater domains, all characterized
Lillebø et al.	Environment 650, 1898-1912.	2019	Portugal	Europe	Effectiveness	1	Marine	by high biodiversity and by the wide range of services provided by ecosystems and their abiotic components, for
								geopolitical boundaries that define countries. Yet 'transboundary' landscapes
	Liu, J., Yong, D.L., Choi, CY., Gibson, L.							often overlap with biodiversity hotspots, contain surprisingly important ecosystems,
	(2020) Transboundary frontiers: An emerging			Multiple				and provide critical habitats for threatened species. Notwithstanding, biodiversity in
	priority for biodiversity conservation. Trends		Global (including	geographic	Connectivity,			these landscapes is increasingly imperiled by infrastructure, including walls and
Liu et al.	in Ecology & Evolution 35, 679-690.	2020	Europe)	regions	Transboundary	1	Terrestrial	fences along borders and cross-border roads that drive landscape fragmentation
								In the European Union, the socio-ecological systems underlying the maintenance of low-intensity farming
	Lomba, A., Buchadas, A., Corbelle-Rico, E.,							systems supporting the occurrence of several species and habitats are known as High Nature Value farmlands.
	Jongman, R., McCracken, D. (2020) Detecting							Detecting trends of change in the extent and location of HNVf is essential to monitor the impact of policies on
	temporal changes in the extent of High							biodiversity. However, assessing changes in HNVf extent is challenging, due to the lack of tested approaches and
	Nature Value farmlands: The case-study of							lack of data with adequate spatial and temporal resolutions. We address such challenge by evaluating the
	the Entre-Douro-e-Minho Region, Portugal.			Southern				usefulness of an existing methodological framework to analyse changes in the extent of HNVf in the agrarian
Lomba et al.	Landscape and Urban Planning 195.	2020	Portugal	Europe	Connectivity	1	Terrestrial	region of Entre-Douro-e-Minho, Northwestern
								and with the establishment of the Natura 2000 network of protected areas, one of the largest networks of
	Maiorano, L., Amori, G., Montemaggiori, A.,							conservation areas worldwide. We performed a gap analysis of the entire Natura 2000 system plus national
	Rondinini, C., Santini, L., Saura, S. and							protected areas and all terrestrial vertebrates . We also evaluated the level of connectivity of both systems,
	Boitani, L., 2015. On how much biodiversity							providing therefore a first estimate of the functionality of the Natura 2000 system as an effective network of
	is covered in Europe by national protected							protected areas.
	areas and by the Natura 2000 network:							Together national protected areas and the Natura 2000 network covered more than one-third of the European
	insights from terrestrial vertebrates.			All Member				Union. National protected areas did not offer protection to 13 total gap species or to almost 300 partial gap
Maiorano et al.	Conservation Biology, 29(4), pp.986-995.	2015		States	Connectivity	1	Terrestrial	species . Together the Natura 2000 network and national protected areas left 1 total gap species and 121 partial
	Mattsson, B.J., Arih, A., Heurich, M., Santi, S.,							managers working in countries with differing languages, laws, and cultures. Collaborative decision analysis has
	Štemberk, J., Vacik, H. (2019) Evaluating a							informed real-world conservation decisions in non-transboundary contexts. Here we evaluate for the first time
	collaborative decision-analytic approach to							its application in two transboundary regions in Europe: Julian Alps along the Italian–Slovenian border, and the
	inform conservation decision-making in			Multiple				Bavarian–Bohemian Forest along the German–Czech border. A collaborative-decision analysis led to bilateral
	transboundary regions. Land Use Policy 83,		Italy, Slovenia,	geographic				agreements about multi-year resource allocations by protected areas in these two transboundary regions of
Mattsson et al.	282-296.	2019	Czechia, Germany	regions	Transboundary	1	Terrestrial	Europe. Steps included problem framing, formulation of objectives, consideration of external factors, alternative
								and is the largest coordinated network of protected areas in the world. Here, we demonstrated that the network
	Mazaris, A.D., Almpanidou, V., Giakoumi, S.,							fails to adequately cover the marine environment and meet the conservation target of 10% set by the
	Katsanevakis, S. (2017) Gaps and challenges				Designation,			Convention on Biological Diversity. The relative percentage of marine surface cover varies significantly among
	of the European network of protected sites in				Connectivity,			member states. Interestingly, the relative cover of protected seascape was significantly lower for member states
	the marine realm. Ices Journal of Marine				Effectiveness,			with larger exclusive economic zones. Our analyses demonstrated that the vast majority of the Natura 2000 sites
Mazaris et al.	Science 75, 190-198.	2017	All Member States		Transboundary	1	Marine	that cover marine waters include both a terrestrial and a marine component. As a result, the majority of the
	Mazaris, A.D., Kallimanis, A., Gissi, E.,				<i>'</i>			increasing evidence concerning their limited capacity to reduce or eliminate some threats even within their own
	Pipitone, C., Danovaro, R., Claudet, J., Rilov,							boundaries. Here, we analysed a Europe-wide dataset comprising 31,579 threats recorded in 1692 sites of the
	G., Badalamenti, F., Stelzenmüller, V.,							European Union's Natura 2000 conservation network. Focusing specifically on threats related to marine species
	Thiault, L., Benedetti-Cecchi, L., Goriup, P.,							and habitats, we found that fishing and outdoor activities were themost widespread threats reported within MPA
	Katsanevakis, S., Fraschetti, S. (2019) Threats							boundaries, although some spatial heterogeneity in the distribution of threatswas apparent. Our results clearly
	to marine biodiversity in European protected			Multiple				demonstrate the need to reconsider currentmanagement plans, standardise monitoring approaches and
	areas. Science of the Total Environment 677,			geographic				reporting, refine present threat assessments and improve knowledge of their spatial patternswithin and outside
Mazaris et al.	418-426.	2019	All Member States	regions	Effectiveness	1	Marine	MPAs in order to improve conservation capacity and outcomes.
azaris et ai.	Miu, I.V., Rozylowicz, L., Popescu, V.D.,	2013	viciniber states	- 0510113	220017011033		arinc	which one third should be strictly protected.
	Anastasiu, P. (2020) Identification of areas of							Designation of the Natura 2000 network, the backbone of nature protection in the EU, was mostly an expert-
	very high biodiversity value to achieve the EU				Designation, EU			opinion process with little systematic conservation planning. The designation of the Natura 2000 network in
	biodiversity strategy for 2030 key			Eastern	Biodiversity			Romania followed the same non-systematic approach, resulting in a suboptimal representation of invertebrates
Miu ot al	commitments. PeerJ 8.	2020	Romania	Europe	Strategy 2030	1	Terrestrial	and plants. To help identify areas with very high biodiversity without repeating past planning missteps, we
Miu et al.	communents, reerJ 8.	2020	NUIIIdilid	Lurope	on alegy 2030	1	rerrestrial	and plants. To help identify areas with very high blodiversity without repeating past planning missteps, we

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								Scientists call for more ambitious targets in the next agreement. The nature-needs-half movement, for example,
	Müller, A., Schneider, U.A., Jantke, K. (2020)							has advocated conserving half of Earth to solve the biodiversity crisis, which has been translated to protecting
	Evaluating and expanding the European				Designation,			50% of each ecoregion. We evaluated current protection levels of ecoregions in the territory of one of the CBD's
	Union's protected-area network toward				Connectivity, EU			signatories, the European Union . We also explored the possible enlargement of the Natura 2000 network to
	potential post-2020 coverage targets.			All Member	Biodiversity			implement 30% or 50% ecoregion coverage in the EU member states' protected area network.
Müller et al.	Conservation Biology 34, 654-665.	2020		States	Strategy 2030	1	Terrestrial	Based on the most recent land-use data, we examined whether ecoregions have enough natural area left to
								area. Thereby, the network surpasses the goal of the Convention on Biological Diversity's Aichi target 11 to
	Müller, A., Schneider, U.A., Jantke, K. (2018)							protect 17% of the land area by 2020. However, Aichi target 11 also calls for protected area networks to be
	Is large good enough? Evaluating and							ecologically representative. Here, we analyzed the coverage of 43 ecoregions in the terrestrial Natura 2000
	improving representation of ecoregions and							estate. To simulate cost-efficient closing of gaps in the current system, we applied a linear programming model
	habitat types in the European Union's							that solves the minimum set conservation problem of expanding the Natura 2000 network to achieve
	protected area network Natura 2000.				Designation,			10%ecoregion representation. As Natura 2000 sites are designated for habitat types and species listed on the
Müller et al.	Biological Conservation 227, 292-300.	2018	All Member States		Connectivity	1	Terrestrial	annexes of the Habitats and Birds directives, we included 226 habitat types as a further biodiversity surrogate in
	Nila, M.U.S., Hossain, M.L. (2019) Predicting							ecosystems to persist. PAs can become climatically unsuitable and unable to sustain their current number of
	the effectiveness of protected areas of			Multiple				species under climate change. The Natura 2000 is the largest coordinated conservation tool assigned to maintain
	Natura 2000 under climate change.			geographic	Designation,			the long-term survival of Europe's most significant species and habitats. In attempting to understand the
Nila et al.	Ecological Processes 8.	2019		regions	Connectivity	1	Terrestrial	effectiveness of PAs in the face of climate change scenarios, we tested two hypotheses: PAs in the Alpine and the
			Greece, the					Context Identifying animals movement through the landscape and delineating key corridors is critical for
	Petsas, P., Tsavdaridou, A.I., Mazaris, A.D.		Republic of North					effective management and conservation. Still, assessments of space-use patterns and landscape connectivity are
	(2020) A multispecies approach for assessing		Macedonia,	South-				subjected to many limitations, especially in large scales.
	landscape connectivity in data-poor regions.		Albania and	Eastern				Objectives The main objective of this study was to assess functional connectivity for four focal mammal species
Petsas et al.	Landscape Ecology 35, 561-576.	2020	Bulgaria	Europe	Transboundary	1	Terrestrial	with varying dispersal abilities and diets, across protected areas in a transnational region where only scarce
r ctsus et un	24.14364pc 266.0gy 657,561 576.		Daigaria	za.opc	Transpouria ary		renestra	1. According to the EU Marine Strategy Framework Directive (2008/56/EC), marine
	Pogoda, B., Merk, V., Colsoul, B., Hausen, T.,							protected areas (MPA) should contribute to a good environmental status of the
	Peter, C., Pesch, R., Kramer, M., Jaklin, S.,							Europeans seas. Measures maintaining or restoring a favourable conservation
	Holler, P., Bartholomä, A., Michaelis, R.,							status of protected species and habitats are mandatory according to the EU
	Prinz, K. (2020) Site selection for biogenic							Habitats Directive (92/43/EEC).
	reef restoration in offshore environments:							` ' ' '
								Identification of suitable sites for ecological restoration measures within MPAs is
	The Natura 2000 area Borkum Reef Ground							a crucial step towards successful conservation and sustainable MPA management.
	as a case study for native oyster restoration.							In terms of species restoration, it is important to restore the respective species
	Aquatic Conservation: Marine and			Western				with the best possible environment for growth, survival, fitness, and successful
Pogoda et al.	Freshwater Ecosystems 30, 2163-2179.	2020	Germany	Europe	Effectiveness	1	Marine	recruitment. The Natura 2000 protected area network , implemented under the Birds and Habitats Directives, constitutes a
	Drines W. Denneymal D. Dellissies W.							
	Princé, K., Rouveyrol, P., Pellissier, V.,							key tool for the conservation of European biodiversity. To date, few studies have looked at its long-term effect
	Touroult, J., Jiguet, F. (2021) Long-term							on biodiversity and even fewer on common species. Here, using citizen science data, we investigated this effect
	effectiveness of Natura 2000 network to							on the temporal trends of widespread and common bird species in France, over the period 2002–2016. We
	protect biodiversity: A hint of optimism for			Western				found results consistent with previous findings demonstrating a significant decline of common bird populations
Princé et al.	common birds. Biological Conservation 253.	2021	France	Europe	Effectiveness	1	Terrestrial	in France.
								We first test whether species richness of butterfly assemblages is higher within
	Rada, S., Schweiger, O., Harpke, A., Kühn, E.,							European Natura 2000 (N2000) sites than in their surroundings. We then assess
	Kuras, T., Settele, J., Musche, M. (2019)							temporal trends in butterfly richness and test whether these trends differ inside and
	Protected areas do not mitigate biodiversity							outside the N2000 network.
	declines: A case study on butterflies.			Western				Location: Germany, Europe.
Rada et al.	Diversity and Distributions 25, 217-224	2019	Germany	Europe	Effectiveness	1	Terrestrial	Methods: We utilized generalized linear mixed-effects models (GLMM) to analyse an
								establishes the classification and selection of protected areas at European level.
								Unfortunately, member countries cannot make the best zoning decisions for biodiversity conservation because
[Rincón, V., Velázquez, J., Gutiérrez, J.,							there are no clear and uniform parameters to designate Natura 2000 sites. Due to this, it is convenient to
	Sánchez, B., Hernando, A., García-Abril, A.,							evaluate the importance of the criteria for biodiversity conservation through a general assessment, which could
	Santamaría, T., Sánchez-Mata, D. (2019)							establish relevant criteria that can be analysed through geostatistical methods combined in multicriteria
[Evaluating European conservation areas and							analysis. This paper aims to consider biodiversity importance values taking into account land use, so that it is
	proposal of new zones of conservation under							possible to develop a zoning proposal which verifies or corrects the suitability of the designated areas for the
	the habitats directive. application to Spanish			Southern	Designation,			Natura 2000 Network in Castilla y León, Andalucía and Madrid . The choice of these regions allows us to compare
Rincón et al.	territories. Sustainability (Switzerland) 11.		Spain	Europe	Connectivity	1	Terrestrial	areas with a high variability of population density, making possible to compare the potential protected areas
mincoll et al.	territories. Sustainability (Switzerland) 11.	2013	Spaili	Lutope	Conficctivity	1 1	refrestral	areas with a fight variability of population density, making possible to compare the potential protected areas

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Rosywood, L., Nist, A., Manoache, S., Portal, P. (2012) Investigating protected area methods for improving protected area methods for improving protected area. Individual protected ar									strategy. These protected areas range across multiple biogeographic regions, and they include a diversity of
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protected area retructs for improving difficulting of contrarged and offishist and protected process partners. Journal of Management (20.4):44-21. Agentics, A., Dobbs, G. (2019) Global trends in protected area concentration from the protected process of the protected pr									· · ·
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Ward, M., Saura, S., Williams, B., Ramirez- Delgado, J.P., Arafeb-Dalman, N., Allan, J.R., Venter, O., Dubois, G., Wiston, J.E. (2020) Just ten percent of the global terrestrial protected area network is structurally connected via intact land. Nature Communications 11, 1-10. Ward et al. Communications 11, 1-20. Zupan, M., Bulleri, F., Franch, L., Frachtetti, S., Guidetti, P., Gard-a-Bubles, A., Sostres, M., Asnaghi, V., Caro, A., Deudero, S., Goffi, R., Guiretti, P., Gard-a-Bubles, A., Sostres, M., Asnaghi, V., Caro, A., Deudero, S., Goffi, R., Guiretti, G., Guillaumon, F., Kersting, D., Kokkai, A., Kruschel, C., Mack, V., Mangialijo, L., Mailol, S., Macpherson, E., Panucci, A., Radolouci, M., Ramdani, M., Schembri, P.J., Tertzi, A., Villa, E., Claudet, J., Zuzin M., Ramdani, M., Schembri, P.J., Tertzi, A., Villa, E., Claudet, J., Zuzin M., Latawiec, A.E., Crouzellies, R., Stratssey, B. Loyan et al. Wediterrenean Supran et al. Mediterrenean Mediterrenean Supran et al. Mediterrenean Supran et al. Mediterrenean Mediterrenean Mediterrenean Mediterrenean Supran et al. Mediterrenean Med		Marine Protected Area Network. Frontiers in			Western	Designation,			of 140,000 samples, recently collected by the Finnish Inventory Programme for the
Delgado, J.P., Arafeh-Dalmau, N., Allan, J.R., Venter, O., Dubbio, S., Quston, J.E. (2020) Just ten percent of the global terrestrial protected area network is structurally connected via intact land. Nature communications 11, 1-10. Zapan, M., Bulleri, F., Evans, J., Fraschetti, S., Guidetti, P., Garofa-Rubies, A., Sostres, M., Araghi, V., Caro, A., Deudero, S., Goffi, R., Guarrieri, G., Guilhaumon, F., Kesting, D., Kokkali, A., Kruschel, C., Macic, V., Mangialipia, L., Mallol, S., Macpherson, E., Panucci, A., Radolovic, M., Ramdani, M., Schembir, J., Terizach, A., Maller, J., Terizach, A., Lamwec, A., B., doldowic, M., Ramdani, M., Schembir, J., Terizach, A., Maller, J., Terizach, A., Lamwec, A., E., Conservation 221, 237-245 Alves-Pinto, H., Geldmann, J., Jonas, H., Maloli, V., Ballnford, A., Latawiec, A., Maloli, V., Ballnford, A., Latawiec, A., Maloli, V., Ballnford, A., Latawiec, A., Mediterranea on the development of the post-2020 Global Biodiversity Transevoric, discussions and evolution of the process of integrated coastal zone Management (ICZM). The amount of the process of integrated coastal zone Management (ICZM), The am Nes-Pinto et al. Berzi, M., Ariza, E. (2018) A Local Transboundary Approach to the Governance of Mediterranea Coastal Bordelnads, Southern Errestrial & of this paper site opening and conservation and therein conservation and therein and the p	Virtanen et al.	Marine Science 5, 402.	2018	Finnland	Europe	Conectivity	1	Marine	Underwater Marine Environment, VELMU. Using the quantitative conservation planning
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Berzi, M., Ariza, E. (2018) A Local Transboundary Approach to the Governance of Mediterranean Coastal Borderlands. Southern of Mediterranean Coastal Borderlands. Southern of the international boundary in these areas poses challenges in the process of Integrated Coastal Zone Management (ICZM). The aim of this paper is to explore the existence, characteristics and the role	Alves-Pinto et al.	Perspectives in Ecology and Conservation.	2021	. /	1	OECMs	2	Marine	
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of Mediterranean Coastal Borderlands. Southern Terrestrial & of this paper is to explore the existence, characteristics and the role		Berzi, M., Ariza, E. (2018) A Local							of the international boundary in these areas poses challenges in
		Transboundary Approach to the Governance							the process of Integrated Coastal Zone Management (ICZM). The aim
Berzi et al. Coastal management 46, 471-487. 2018 Spain, France Europe Transboundary 2 Marine that local cross-border cooperation plays in transboundary coastal		of Mediterranean Coastal Borderlands.			Southern			Terrestrial &	of this paper is to explore the existence, characteristics and the role
	Berzi et al.	Coastal management 46, 471-487.	2018	Spain, France	Europe	Transboundary	2	Marine	that local cross-border cooperation plays in transboundary coastal

	<u> </u>		1	1	1	_		Habitat loss is a key driver of hiediversity loss. However, bardly any long term time series analyses of babitat loss
	Dist M. Dilini I Malata 7 (2010) Has af							Habitat loss is a key driver of biodiversity loss. However, hardly any long-term time series analyses of habitat loss
	Biró, M., Bölöni, J., Molnár, Z. (2018) Use of							are available above the local scale for finer-level habitat categories. We analysed, from a long-term perspective,
	long-term data to evaluate loss and							the habitat specificity of habitat-area loss, the change in trends in habitat loss since 1989, and the impact of
	endangerment status of Natura 2000							protected areas on habitat loss in Hungary. We studied 20 seminatural habitat types in 5000 randomly selected
	habitats and effects of protected areas.			Eastern				localities over 7 periods from 1783 to 2013 based on historical maps, archival and recent aerial photos and
Biró et al.	Conservation Biology 32, 660-671.	2018	Hungary	Europe	Effectiveness	2	Terrestrial	satellite imagery, botanical descriptions, and field data. We developed a method for estimating habitat types
								terrestrial territory by 2020, however wilderness areas in Germany currently only cover 0.6% of the total land
	Brackhane, S., Schoof, N., Reif, A., Schmitt,							area. Operationalizing the wilderness concept in densely populated countries like Germany where few primary
	C.B. (2019) A new wilderness for Central							habitats remain is challenging. In this study, we developed minimum criteria for forest wilderness areas and
	Europe? — The potential for large strictly							assessed their number, spatial distribution and extent for Germany. We tested their ecological
	protected forest reserves in Germany.			Western	Designation,			representativeness in the main German ecoregions, their compatibility with ecological networks, overlaps with
Brackhane et al.	Biological Conservation 237, 373-382.	2019	Germany	Europe	Connectivity	2	Terrestrial	existing protected areas, and forest ownership. Our results revealed a potential for forest wilderness areas to
Draditianic et an	Brambilla, M., Rizzolli, F., Franzoi, A.,	2013	Cermany	Luiope	connectivity		· ci · csti · ai	Protected areas (PAs) have been established to promote the long-term conservation of biodiversity and
	Caldonazzi, M., Zanghellini, S., Pedrini, P.							ecosystems. Wetlands, which represent a key habitat worldwide, have been largely destroyed, particularly in
	(2020) A network of small protected areas							more industrialized countries, and their remnants are now often preserved by PA networks, especially in the
	favoured generalist but not specialized							European Union. We tested the effectiveness of a PA network of 26 small wetlands in preserving wetland birds
	wetland birds in a 30-year period. Biological			Southern				over a thirty-year period , by investigating changes in species occurrence and relating them to the species'
Brambilla et al.	Conservation 248.	2020	Italy	Europe	Effectiveness	2	Terrestrial	ecological specialization. Out of 23 species, 10 showed an increase in occurrence, 7 remained stable and 6
Branibilia et al.		2020	italy	Lurope	Lifectiveness		Terrestriai	
	Brescancin, F., Dobšinská, Z., De Meo, I.,							biodiversity. The national governments of European Unionmember countries have delegated the responsibility
	Šálka, J., Paletto, A. (2018) Analysis of							to manage the Natura 2000 sites at sub-national/regional level. The responsible for the Natura 2000 sites
	stakeholders' involvement in the							management must organise stakeholders' involvement in the decision-making process to balance the objectives
	implementation of the Natura 2000 network							of nature conservation with the social and economic interests. The aim of this paper is to investigate public
	in Slovakia. Forest policy and economics 89,			Eastern	Designation,			participation process in the implementation of Nature 2000 network in Slovakia. After a stakeholder analysis, 16
Brescancin et al.	22-30.	2018	Slovakia	Europe	Effectiveness	2	Terrestrial	stakeholders participated in the survey. The data were collected through the administration of face-to-face
								conservation of critical habitat types. Even though the identification of protected areas is still required in Europe,
	Campagnaro, T., Trentanovi, G., Sitzia, T.							conservation efforts are now focusing on management requirements for protected areas and habitat types.
	(2018) Identifying habitat type conservation							Establishing effective management approaches is important for the conservation of the natural and semi-natural
	priorities under the habitats directive:							habitat types that are identified under the Habitats Directive framework. In this study, we propose a
	Application to two Italian biogeographical			Western				methodology for determining priorities in the conservation management of habitat types based on readily
Campagnaro et al.	regions. Sustainability (Switzerland) 10.	2018	Alps	Europe	Designation	2	Terrestrial	available data. This method relies on four simple criteria to rank habitat types, which includes: conservation
	Claudet, J., Loiseau, C., Pebayle, A. (2021)							A healthy Ocean is critical for achieving sustainable development goals but the Ocean is threatened by multiple
	Critical gaps in the protection of the second							stressors. There is a global call to increase the coverage of marine protected areas (MPAs) from 10% to at least
	largest exclusive economic zone in the world.			Western				30% by 2030. France, a major actor for marine conservation with the second largest exclusive economic zone in
Claudet et al.	Marine Policy 124.	2021	France	Europe	Effectiveness	2	Marine	the world, with territories in all Ocean basins but the Arctic, aims at reaching the 30% by 2022, for which one
								potential impacts range from local changes in species composition to wider-scale effects on forest habitat and
	de la Fuente, B., Beck, P.S.A. (2018) Invasive							landscape functioning, although the latter has been relatively little explored in the literature. Here, we assessed
	species may disrupt protected area							the impact of an invasive forest pest, the pine wood nematode , in the Natura 2000 network of protected areas
	networks: Insights from the pine wood			Southern				in Portugal, the first European country in which PWN was reported. We considered the impacts of the pest's
de la Fuente et al.	nematode spread in Portugal. Forests	2018	Portugal	Europe	Connectivity	2	Terrestrial	spread on individual PAs, in terms of the fraction of their coniferous forest infected, and on the corridors
								This article explores the concept of «other effective area-based conservation measures» in the context of the UN
								Convention on Biological Diversity Aichi Biodiversity Target 11 on marine protected areas and OECMs and its
	Diz, D., Johnson, D., Riddell, M., Rees, S.,							linkages to the Sustainable Development Goals . It argues that mainstreaming biodiversity through CBD Aichi
	Battle, J., Gjerde, K., Hennige, S., Roberts,							Biodiversity Targets' implementation into the SDGs can contribute to a more systemic and comprehensive
								, , , , , , , , , , , , , , , , , , , ,
	J.M. (2018) Mainstreaming marine							implementation of SDG 14.5 on conservation of at least 10% of marine and coastal areas. It argues that OECMs
	biodiversity into the SDGs: the role of other							can complement MPAs and contribute to ecologically representative and effectively managed marine protected
	effective area-based conservation measures					_		areas systems integrated into broader governance systems such as marine spatial planning.
Diz et al.	(SDG 14.5). Marine Policy 93, 251-261.	2018		1	OECMs	2	Marine	Selected global and local sectoral conservation measures are therefore highlighted in this analysis as potential
								Continued biodiversity loss has prompted calls for half of the planet to be set aside for nature e including E. O
	Dudley, N., Jonas, H., Nelson, F., Parrish, J.,							Wilson's "Half-Earth" approach and the Wild Foundation's "Nature Needs Half" initiative. These efforts have
	Pyhälä, A., Stolton, S., Watson, J.E. (2018)							provided a necessary wake-up call and drawn welcome global attention for the urgent need for increased action
	The essential role of other effective area-							on conserving biodiversity and nature in general. Yet they have also sparked debate within the conservation
	based conservation measures in achieving							community, particularly due to the huge practical and political obstacles to establishing or expanding protected
	big bold conservation targets. Global Ecology						Terrestrial &	areas on this scale. The new designation of «other effective areabased conservation measures» provides the
Dudley et al.	and Conservation 15, e00424.	2018	ı		OECMs	-	Marine	opportunity for formal recognition of and support for areas delivering conservation outcomes outside the

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								Armenia, and Turkey. Javakheti's particular transboundary significance is related to its wetlands
	Elizbarashvili, N., Dvalashvili, G.,							located at very high altitudes and its highland plateaus that are the crossroads of bird migration
	Sulkhanishvili, N. (2019) Selection principles							routes between Europe, Asia and Africa. According to international environmental regulations,
	and focuses of landscape planning of							the Javakheti wetlands meet the requirements necessary to be classified as a Ramsar site
	protected areas. International Journal of		Georgia, Armenia,	Eastern	Designation,			and may be potentially put Ramsar site list, as Georgia signed the Ramsar Convention in 1996.
Elizbarashvili et al.	Geoheritage and Parks 7, 33-44.	2019	Turkey	Europe	Transboundary	2	Terrestrial	At present the Javakheti ecosystems need to be protected, sustained, improved and developed,
	Gameiro, J., Silva, J.P., Franco, A.M.A.,							Assessing progress towards achieving conservation targets is required for all countries committed to the
	Palmeirim, J.M. (2020) Effectiveness of the							Convention on Biological Diversity. The Natura 2000 network is the largest protected area network in the world
	European Natura 2000 network at protecting							and was created to protect Europe's threatened species and habitats, often requiring active management. This
	Western Europe's agro-steppes. Biological			Southern	Effectiveness,			study assesses the effectiveness of areas classified under the EU Birds Directive at protecting Western Europe's
Gameiro et al.	Conservation 248.	2020	Portugal, Spain	Europe	Connectivity	2	Terrestrial	agro-steppes, the last remnants of suitable habitat for several endangered bird species. We quantify agro-steppe
								for species of medium- and large-sized mammals. Some of the occurrences that explain this trend are
	Garcia-Lozano, C., Varga, D., Pintó, J., Roig-							biodiversity protection, the creation of natural protected areas, and the abandonment of traditional agricultural
	Munar, F.X. (2020) Landscape connectivity							activities. In recent years, wolves have once again been seen in forests in the eastern sector of the Pyrenees and
	and suitable habitat analysis for wolves							the Pre-Pyrenees. The success or failure of their permanent settlement will depend on several factors, including
	(Canis lupus I.) in the eastern pyrenees.			Southern				conservation measures for the species, habitat availability, and the state of landscape connectivity. The aim of
Garcia-Lozano et al.	Sustainability (Switzerland) 12, 1-20.	2020	Spain, France	Europe	Connectivity	2	Terrestrial	this study is to analyze the state of landscape connectivity for fragments of potential wolf habitat in Catalonia,
Garcia-Lozario et al.	Sustainability (Switzerland) 12, 1-20.	2020	Spain, France	Lurope	Connectivity		Terrestriai	The Adriatic and Ionian Region is an important area for both strategic maritime development and biodiversity
	Gissi, E., McGowan, J., Venier, C., Carlo, D.D.,							conservation in the European Union . However, given that both EU and non-EU countries border the sea,
	Musco, F., Menegon, S., Mackelworth, P.,							multiple legal and regulatory frameworks operate at different scales, which can hinder the coordinated long-
	Agardy, T. and Possingham, H., 2018.							term sustainable development of the region. Transboundary marine spatial planning can help overcome these
	Addressing transboundary conservation							challenges by building consensus on planning objectives and making the trade-offs between biodiversity
	challenges through marine spatial		A data At a a a d I a a ta a	C	C			conservation and its influence on economically important sectors more explicit. We address this challenge by
	prioritization. Conservation Biology, 32(5),		Adriatic and Ionian		Connectivity,	_		developing and testing 4 spatial prioritization strategies with the decision-support tool
Gissi et al.	pp.1107-1117.	2018	Region	Europe	Transboundary	2	Marine	Marxan, which meets targets for biodiversity conservation while minimizing impacts to users. We evaluated
								maritime nations exercise greater management over their territorial waters and, in many cases, over exclusive
								economic zones that span a larger area. The purpose of this planning is to reverse the environmental
	Gómez-Ballesteros, M., Cervera-Núñez, C.,							degradation of the seas and facilitate the sustainable use of marine resources, both for mature uses such as
	Campillos-Llanos, M., Quintela, A., Sousa, L.,							fishing and navigation, and for emergent uses, including renewable energies and mariculture. In Europe, the
	Marques, M., Alves, F., Murciano, C.,							Directive 2014/ 89/EU of the European Parliament and of the Council of 23 July 2014 establishing a framework
	Alloncle, N., Sala, P. (2021) Transboundary							for maritime spatial planning oblige coastal Member States to develop maritime spatial plans at the latest by
	cooperation and mechanisms for Maritime							31st March 2021. To help in that process, countries have at their disposal a set of existing supporting guidelines,
Gómez-Ballesteros	Spatial Planning implementation. SIMNORAT		Spain, Portugal,	Southern	Connectivity,			recommendations and sets of tools and data, as the SIMNORAT project, co-funded by the EC – DG Maritime
et al.	project. Marine Policy 127, 104434.	2021	France	Europe	Transboundary	2	Marine	Affairs and Fisheries (DG MARE). This paper presents best practices developed in this project on technical,
	Hermoso, V., Morán-Ordóñez, A., Brotons, L.				<i>'</i>			The Natura 2000 aims to promote the persistence of biodiversity and traditional uses. European landscapes
	(2018) Assessing the role of Natura 2000 at							have, however, undergone large transformations in the past decades, mainly associated with the abandonment
	maintaining dynamic landscapes in Europe							of less productive lands concentration of intensive agriculture. These changes could pose management
	over the last two decades: implications for			Multiple				challenges and new opportunities to the achievement of the networks goals. Objective Evaluate changes in land
	conservation. Landscape Ecology 33, 1447-			geographic				cover within Natura 2000 in the last two decades. Methods: We use different Corine Land Cover datasets to
Hermoso et al.	1460.	2018		regions	Effectiveness	2	Terrestrial	construct transition matrices of land uses for measuring changes for each Natura 2000 site. We also explore the
	2.55.	2010		. 0510113	22011/211233		. circotilai	seminatural areas to support the maintenance of ecosystem services and connect protected areas, promoting in
	Hormoso V. Morán Ordáñoz A. Janesa M.							
	Hermoso, V., Morán-Ordóñez, A., Lanzas, M.,			Multiple				this way multifunctional landscapes. This network of GI aims to address the decline in ESS across the EU and also
	Brotons, L. (2020) Designing a network of			Multiple	Designation			contribute to achieving the objectives of the Biodiversity Strategy, such as halting biodiversity loss.
	green infrastructure for the EU. Landscape	200-		geographic	Designation,		T	Here, we demonstrate how a spatial planning tool could be used for designing a network of GI across the EU. We
Hermoso et al.	and Urban Planning 196, 103732.	2020		regions	Connectivity	2	Terrestrial	tested two alternative planning scenarios: an EU-based, where the full network is planned at the continental
								concurrently potential damages related with NPA characteristics. Particularly, many regions of Spain face strong
	Jaraíz-Cabanillas, F.J., Mora-Aliseda, J.,							pressure due to their geographical, demographic and economic handicaps. This study presents a methodological
	Jeong, J.S., Garrido-Velarde, J. (2018)							proposal for properly classifying and delineating NPA, highlighted in a case region of Extremadura, being
	Methodological proposal to classify and							NATURA 2000 site of local heritage and one of less developed regions in European Union .
	delineate natural protected areas. Study							Information System , the case region was firstly analyzed and then presented the real geo-socio-economic
Jaraíz-Cabanillas et	case: Region of Extremadura, Spain. Land Use			Southern				impact and environmental protection implementation, which urgently need to adopt a new methodological
al.	Policy 79, 310-319.	2018	Spain	Europe	Designation	2	Terrestrial	proposal with the complex and diverse legislations.

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								combined with existing evaluation frameworks assessing the economic and environmental impacts of PAs.
	Jones, N., Malesios, C., Ioannidou, E.,							The present paper focuses on the subjective assessment of social impacts of PAs and how these perceptions are
	Kanakaraki, R., Kazoli, F., Dimitrakopoulos,							formulated. Results of an empirical study, implemented in three PAs in Greece, are presented. According to the
	P.G. (2018) Understanding perceptions of the							study, individuals' perceived quality of life, trust in institutions, social trust and place attachment are the most
	social impacts of protected areas: Evidence							important indicators influencing perceptions of social impacts. A main conclusion of the paper is that measuring
	from three NATURA 2000 sites in Greece.							social impacts is not sufficient for the planning and designation of a PA. Additional research is needed exploring
	Environmental Impact Assessment Review			Southern				the reasons behind these perceptions in order to plan actions minimizing negative impacts for local
Jones et al.	73, 80-89.	2018	Greece	Europe	Designation	2	Terrestrial	communities.
	Koemle, D., Lakner, S., Yu, X. (2019) The							resistance from land users due to increased regulations on land use and related value change. This study first
	impact of Natura 2000 designation on							develops a theoretical model for rent change due to land regulation, and then empirically investigates whether
	agricultural land rents in Germany. Land Use			Western				farmland rents in Germany are affected by Natura 2000 designation. We use a matching procedure based on a
Koemle et al.	Policy 87.	2019	Germany	Europe	Designation	2	Terrestrial	zero-inflated beta generalized propensity score on German district level agricultural census data. Our results
	Kull, M., Moodie, J., Thomas, H., Mendez-		,					the European Commission in 2017, highlights the growing commitment of policy and decision-makers in
	Roldan, S., Giacometti, A., Morf, A., Isaksson,							developing transboundary collaboration relevant to Marine Spatial Planning as a mechanism for promoting
	I. (2019) International good practices for							sustainable sea use. While collaboration across borders represents positive progress towards global
	facilitating transboundary collaboration in							environmental stewardship and international cooperation, transboundary MSP can present challenges and
	,							
	Marine Spatial Planning. Marine Policy,	2046	n III 6	Western	Connectivity,			obstacles as it can be a complex process involving different parties and stakeholders across multiple levels of
Kull et al.	103492.	2019	Baltic Sea	Europe	Transboundary		Marine	governance. In this article, we examine the different enabling factors and good practices that emerge from two
	Lai, S., Leone, F., Zoppi, C. (2018)							According to the European Commission, green infrastructure is conceived as a strategically planned network of
	Implementing green infrastructures beyond							natural and semi-natural areas. This definition highlights three important issues: environment protection,
	protected areas. Sustainability (Switzerland)			Southern	OECMs,			ecosystems multifunctionality and ecological connectivity.
Lai et al.	10.	2018	Italy	Europe	Designation	2	Terrestrial	Building upon a methodology that identifies a Sardinian regional GI in relation to four values, this study aims at
								in the European Union's biodiversity conservation policy. To achieve the national enforcement of Natura 2000
	Laktić, T., Malovrh, Š.P. (2018) Stakeholder							and to overcome implementation problems, effective policy measures are needed, and participation among
	participation in Natura 2000 management			Eastern	Designation,			different stakeholders is required. The aim of this paper was to evaluate the process of formulation of the
Laktic et al.	program: Case study of Slovenia. Forests 9.	2018	Slovenia	Europe	Effectiveness	2	Terrestrial	Natura 2000 Management
								There is a growing demand for holistic landscape planning to enhance sustainable use of ecosystem services and
								maintenance of the biodiversity that supports them. In this context, the EU is developing policy to regulate the
	Lanzas, M., Hermoso, V., de-Miguel, S., Bota,							maintenance of ESS and enhance connectivity among protected areas . This is known as the network of Green
	G., Brotons, L. (2019) Designing a network of							Infrastructure . However, there is not a working framework defined to plan the spatial design of such network of
	green infrastructure to enhance the							GI.
	conservation value of protected areas and							Here, we use the software Marxan with Zones, to prioritize the spatial distribution of different management
	maintain ecosystem services. Science of the			Southern	OECMs,			zones that accommodate the needs of a network of GI.
Langue et al	Total Environment 651, 541-550.	2010	Spain	Europe	Designation	2	Terrestrial	
Lanzas et al.	Loos, J., Vizauer, T.C., Kastal, A., Davies, M.,	2015	Spain	Europe	Designation		rerrestriai	and a management zone devoted to exploiting provisioning ESS.We performed four planning scenarios that Romania is one of the last strongholds of the Danube Clouded Yellow, which is a critically endangered European
	Hedrich, H., Dolek, M. (2020) A highly							butterfly species. Knowledge gaps of the ecology and the underlying drivers for its decline hinder the
	endangered species on the edge:							development and implementation of suitable management plans. Here, we investigated habitat characteristics
	distribution, habitat use and outlook for							and the social-ecological conditions in two recently established Natura 2000 sites in Romania. We conducted
[•							· · · · · · · · · · · · · · · · · · ·
[Colias myrmidone in newly established							ecological surveys of the species' occurrence and its habitats. We interviewed local farmers about their land-use
	Natura 2000 areas in Romania. Environment,			F				practices and their perception of the Natura 2000 areas.
l and at al	Development and Sustainability 22, 2399-	2022	Domania	Eastern	Designation:	_	Tannaatutul	Moreover, we investigated the information flow on the Natura 2000 implementation process between
Loos et al.	2414.	2020	Romania	Europe	Designation	2	Terrestrial	representatives of local governmental and non-governmental organizations.
	Lovrić, M., Lovrić, N., Schraml, U., Winkel, G.							Directives, for which the national designation of protection areas should be founded on scientific criteria. A
[(2018) Implementing Natura 2000 in Croatian							review of these processes in different EU member states shows, however, that many factors have affected the
[forests: An interplay of science, values and							designation process, such as power and influence of different interest groups and capacities of the
	interests. Journal for Nature Conservation			Eastern				administrations responsible for implementation. In this paper, we assess the activities of an expert working
Lovric et al.	43, 46-66.	2018	Croatia	Europe	Designation	2	Terrestrial	group which has prepared the forestry section of the Ordinance on Natura 2000, the basic legislative act by
I T	Mammola, S., Riccardi, N., Prié, V., Correia,							become an experimental arena for biological conservation. With an estimated annual budget of €20 billion, the
	R., Cardoso, P., Lopes-Lima, M., Sousa, R.							EU Biodiversity Strategy for 2030 has set an ambitious goal of classifying 30% of its land and sea territory as
	(2020) Towards a taxonomically unbiased							Protected Areas and ensuring no deterioration in
	European Union biodiversity strategy for							conservation trends and the status of protected species. We analysed LIFE projects focused on animals from
	2030: Popularity drives EU conservation.				EU Biodiversity			1992 to 2018 and found that investment in vertebrates was six times higher than that for invertebrates (€970
				All Manah	· ·		Tannastnial O	1 · · · · · · · · · · · · · · · · · · ·
Mammala -+ -1	Proceedings of the Royal Society B: Biological	2022	J	All Member	Strategy,	_	Terrestrial &	versus €150 million), with birds and mammals alone accounting for 72% of species and 75% of the total budget.
Mammola et al.	Sciences 287.	2020	/	States	Effectiveness	2	Marine	In relative terms, investment per species towards vertebrates has been 468 times higher than that for

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	Mason, N., Ward, M., Watson, J.E., Venter,							action among nations remains elusive. As a result, species with ranges that span international borders—which
	O., Runting, R.K. (2020) Global opportunities							include 53.8% of terrestrial birds, mammals and amphibians—are in increasing peril through uncoordinated
	and challenges for transboundary			Multiple				management and artificial barriers to human movement, such as border fences. Transboundary conservation
	conservation. Nature Ecology & Evolution 4,		Global (including	geographic	Connectivity,			initiatives represent a unique opportunity to better protect species through coordinated management across
Mason et al.	694-701.	2020	Europe)	regions	Transboundary	2	Terrestrial	national borders. Using metrics of governance, collaboration and human pressure, we provide an index of
	Nilsson, L., Bunnefeld, N., Persson, J., Žydelis,							small to fulfill the resource requirements of many large and mobile wildlife species, especially when
	R., Månsson, J. (2019) Conservation success							congregating in large numbers. In such cases, wildlife may overflow onto surrounding human-dominated land
	or increased crop damage risk? The Natura							and cause impacts.
	2000 network for a thriving migratory and							The aim of the EU Natura 2000 network is to increase supranational connectivity between protected areas for
	protected bird. Biological Conservation 236,							migratory and protected species such as the common crane (Grus grus). The crane population along the Western
Nilsson et al.	1-7.	2019			Connectivity	2	Terrestrial	European flyway has been increasing rapidly in recent decades, with peaks of 200,000 cranes at specific Natura
	Pechanec, V., Machar, I., Pohanka, T., Opršal,							biodiversity protection. Worldwide, the area of PAs is continually increasing. But is the effectiveness of
	Z., Petrovič, F., Švajda, J., Šálek, L., Chobot,							biodiversity protection improving with it? Since many PAs only exist as «paper parks», the answer is uncertain.
	K., Filippovová, J., Cudlín, P. and Málková, J.,							Moreover, it has long been known that, not only an increase in the extent of PAs, but also the efficiency of their
	2018. Effectiveness of Natura 2000 system							management is fundamentally important for effective nature conservation. Therefore, there is a wide-ranging
	for habitat types protection: A case study							discussion about the actual effectiveness of PAs and factors that influence it.
	from the Czech Republic. Nature			Eastern				In the course of the EU pre-accession phase, a comprehensive field mapping of natural habitats took place in the
Pechanec et al.	Conservation, 24, p.21.	2018	Czech Republic	Europe	Effectiveness	2	Terrestrial	Czech Republic in years 2001–2004.
	Pereira, J. (2018) Multi-node protection of		·					The selection of reserves for biodiversity conservation involves the evaluation of multiple criteria, ranging from
	landscape connectivity: Habitat availability							representativeness of ecological features to anthropogenic interests and spatial configuration. Among the
	and topological reachability. Community			Southern	Designation,			principal spatial attributes to be considered, connectivity has received particular emphasis in response to the
Pereira et al.	Ecology 19, 176-185.	2018	Spain	Europe	Connectivity	2	Terrestrial	escalating threat of habitat loss and fragmentation. Connectivity is an intrinsic property of networks.
	Petza, D., Chalkias, C., Koukourouvli, N., Coll,							developed. Such a framework contributes to the wider concept of considering other effective area-based
	M., Vassilopoulou, V., Karachle, P.K.,							conservation measures , as complementing conservation efforts and substantially contributing to effectively and
	Markantonatou, V., Tsikliras, A.C.,							equitably achieving Aichi biodiversity Target 11. A tailor-made multi-criteria decision analysis was designed and
	Katsanevakis, S. (2019) An operational							applied, for potential OECMs to be carefully assessed on a case-by-case basis and categorized according to their
	framework to assess the value of fisheries							effectiveness in terms of contributing to marine biodiversity conservation. The official documentation and
	restricted areas for marine conservation.			Southern				guidance provided by the IUCN were fully respected and made operational, providing a paradigm to managers
Petza, et al.	Marine Policy 102, 28-39.	2019	Greece	Europe	OECMs	2	Marine	and decision makers for assessing the contribution of FRAs to marine conservation under the OECM concept.
r ctza, ct an	Manne 1 only 102, 20 03.	2013	0.000	za.opc	0201113		iviaine	recreational opportunity, providing benefits in terms of physical and mental health through outdoor
	Rocchi, L., Cortina, C., Paolotti, L., Boggia, A.							experiences.
	(2020) Recreation vs conservation in Natura							Nature-based tourism is tourism based on the natural attractions of an area: the greater the recreation
	2000 sites: a spatial multicriteria approach			Southern				opportunities, the greater the attractiveness to people. N2K sites are suitable places to favour the development
Rocchi et al.	analysis. Land Use Policy 99.	2020	Italy	Europe	Designation	2	Terrestrial	of the NBT, as N2K is not a system of strict nature reserves from which all human activities would be excluded.
ROCCIII et al.		2020	italy	Europe	Designation		Terrestriai	· · · · · · · · · · · · · · · · · · ·
	Rodríguez-Rodríguez, D., López, I. (2020)							and at different spatial scales. In this study, we analysed the organisational perception on the socioeconomic
	Socioeconomic effects of protected areas in							effects of PA designation from all sectors of activity in Spain, accounting for PAs' legal stringency.
Rodríguez-Rodrígue	Spain across spatial scales and protection			Southern				A semi-structured questionnaire was administered to 68 organisations at national, regional and local scales
et al.	levels. Ambio 49, 258-270.	2020	Spain	Europe	Designation	2	Terrestrial	through an online survey. Local stakeholders and the primary, secondary and tertiary sectors were most
								through access restriction to natural resources. We used a mixed
	Rodríguez-Rodríguez, D., López, I. (2018)							methods research framework that combines time series analysis and stakeholder surveys to
	Effects of legal designation and management			I				elicit objective and subjective effects of legal and managerial designation of Sierra Cabrera-Bedar Natura 2000
Rodríguez-	of a multiple-use protected area on local			Southern				site on local sustainability in south-eastern Spain. Firstly, 47 environmental, social, and economic variables for
Rodríguez et al.	sustainability. Sustainability (Switzerland) 10.	2018	Spain	Europe	Designation	2	Terrestrial	which official time series data were available were assessed using a multiple-paired-Before-After-Control-Impact
								conservation proposals and the theoretical convergence of nations towards sustainable development goals with
	Romano, J., Pérez-Chinarro, E., Coral, B.V.							the practices in action. By applying the landscape approach to the case study of the rural system of the
	(2020) Network of Landscapes in the							Spanish-Portuguese border, declared Meseta Ibérica TBR, it is verified that the spatial zoning of TBRs is a
i I	Sustainable Management of Transboundary			Southern				prominent factor in this gap, since they do not correspond to the landscape units and bioregions. This has led to

	1		T	1		_		
	Sabatini, F.M., Keeton, W.S., Lindner, M.,							Primary forests are critical for forest biodiversity and provide key ecosystem services. In Europe, these forests
	Svoboda, M., Verkerk, P.J., Bauhus, J.,							are particularly scarce and it is unclear whether they are sufficiently protected. Here we aim to: understand
	Bruelheide, H., Burrascano, S., Debaive, N.,							whether extant primary forests are representative of the range of naturally occurring forest types, identify forest
	Duarte, I., Garbarino, M., Grigoriadis, N.,							types which host enough primary forest under strict protection to meet conservation targets and highlight areas
	Lombardi, F., Mikoláš, M., Meyer, P., Motta,							where restoration is needed and feasible.
	R., Mozgeris, G., Nunes, L., Ódor, P.,							Location: Europe.
	Panayotov, M., Ruete, A., Simovski, B.,							Methods: We combined a unique geodatabase of primary forests with maps of forest cover, potential natural
	Stillhard, J., Svensson, J., Szwagrzyk, J.,							vegetation, biogeographic regions and protected areas to quantify the proportion of extant primary forest across
	Tikkanen, O.P., Vandekerkhove, K.,							Europe's forest types and to identify gaps in protection. Using spatial predictions of primary forest locations to
	Volosyanchuk, R., Vrska, T., Zlatanov, T.,							account for underreporting of primary forests, we then highlighted areas where restoration could complement
	Kuemmerle, T. (2020) Protection gaps and							protection.
	restoration opportunities for primary forests							Results: We found a substantial bias in primary forest distribution across forest types.
	in Europe. Diversity and Distributions 26,				EU Biodiversity			Of the 54 forest types we assessed, six had no primary forest at all, and in twothirds of forest types, less than 1%
Sabatini et al.	1646-1662	2020			Strategy 2030	2	Terrestrial	of forest was primary. Even if generally protected, only ten forest types had more than half of their primary
				İ		_		is increasingly dominated by anthropogenic land use, it is clear that broad-scale systems of nature reserves
	Sahlean, T.C., Papeş, M., Strugariu, A.,							connected by corridors are needed to enable the dispersal of flora and fauna. The European Union currently
	Gherghel, I. (2020) Ecological corridors for							supports a continent-wide network of protected areas, the Natura 2000 program, but this program lacks the
	the amphibians and reptiles in the Natura			Eastern				necessary connectivity component. To examine whether a comprehensive network could be built in order to
Sahlean et al.	2000 sites of Romania. Scientific Reports 10.	2020	Romania	Europe	Connectivity	2	Terrestrial	protect amphibians and reptiles, two taxonomic groups sensitive to environmental changes due to their
Samean et al.	2000 sites of Romania. Scientific Reports 10.	2020	Komama	Lurope	Connectivity		Terrestriai	This article illustrates how the creation of a Marine Protected Area in Malta is failing to adequately include
	Said, A., MacMillan, D., Campbell, B. (2018)							stakeholders in the configuration of conservation targets and measures, leaving local fishers increasingly
	Crossroads at sea: Escalating conflict in a			C th				disempowered. Through a series of interviews and long-term participatory observation, it has been found that
Catal and	marine protected area in Malta. Estuarine,	2040	N 4 - It -	Southern	F# +1:	2		the leaders who represent local fishers are failing to communicate the MPA process to their community. Instead,
Said et al.	Coastal and Shelf Science 208, 52-60.	2018	Malta	Europe	Effectiveness	2	Marine	they are using their position in the MPA negotiations to subjugate and silence the fishing community in general
	_ , ,,, , ,,, ,, , ,							to colonize new sites and exchange migrants to sustain viable local populations. Alpine habitats often have a
	Schoville, S.D., Dalongeville, A., Viennois, G.,							high level of protection, yet extensive environmental heterogeneity and the limited dispersal ability of many
	Gugerli, F., Taberlet, P., Lequette, B., Alvarez,							endemic species makes it unclear whether PA networks provide sufficient connectivity to protect vulnerable
	N., Manel, S. (2018) Preserving genetic							species. We assess landscape connectivity in the European alpine PA network by combining measures of habitat
	connectivity in the European Alps protected							and genetic connectivity using community landscape genetics approaches. Examining 27 plant species, we
	area network. Biological Conservation 218,			Western	Connectivity,			compare levels of genetic diversity in PA and non-PA sites, and rank non-PA sites for their potential value in
Schoville et al.	99-109.	2018	Alps	Europe	OECMs	2	Terrestrial	facilitating genetic and habitat connectivity, as well as preserving species richness in 893 alpine plants. Non-PA
								Due to their longevity and structure, forest ecosystems are particularly affected by climate change with
								consequences for their biodiversity, functioning, and services to mankind. In the European Union , natural and
	Steinacker, C., Beierkuhnlein, C., Jaeschke, A.							seminatural forests are protected by the Habitats Directive and the Natura 2000 network. This study aimed to
	(2019) Assessing the exposure of forest							assess the exposure of three legally defined forest habitat types to climate change, namely Tilio-Acerion forests
	habitat types to projected climate							of slopes, screes, and ravines , bog woodlands , and alluvial forests with Alnus glutinosa and Fraxinus excelsior.
	change—Implications for Bavarian protected			Western	Designation,			We analyzed possible changes in their Bavarian distribution, including their potential future coverage by Natura
Steinacker et al.	areas. Ecology and Evolution 9, 14417-14429.	2019	Germany	Europe	Connectivity	2	Terrestrial	2000 sites. We hypothesized that protected areas with larger elevational ranges will remain suitable for the
								economic, ecological, and socio-cultural aspects and interests. In the boreal, sub-alpine, and alpine regions in
	Svensson, J., Neumann, W., Bjärstig, T.,							Sweden, encompassing 32 million ha, many and dierent land-use interests overlap, which causes risks for
	Zachrisson, A., Thellbro, C. (2020) Landscape							conflict, but potentially also suggests integration and synergy opportunities. Based on geographic information
	approaches to sustainability-aspects of							system analyses of geographically delineated national interests regulated in the Swedish Environmental Code,
	conflict, integration, and synergy in national							including, amongst others, Natura 2000, contiguous mountains, recreation, reindeer husbandry, and wind
	public land-use interests. Sustainability			Western				power, and based on forestry as a dominating land use, we found extensive overlap among similar but also
Svensson et al.	(Switzerland) 12.	2020	Sweden	Europe	Designation	2	Terrestrial	between dissimilar types of interest. In some mountain municipalities, our results show that the designated
	Terraube, J., Helle, P., Cabeza, M. (2020)							governance and external threats. Although methodological advances have permitted assessments of PA
	Assessing the effectiveness of a national							effectiveness in mitigating deforestation, we still lack similar studies for the impact of PAs on wildlife
	protected area network for carnivore							populations. Here we use an innovative combination of matching methods and hurdle-mixed models with a large
	conservation. Nature communications 11, 1-			Western	OECMs.			scale and long-term dataset for
Terraube et al.	9.	2020	Finnland	Europe	effectiveness	2	Terrestrial	Finland's large carnivore species. We show that the national PA network does not support higher densities than
	Vakushova N. (2010) Managing protected							components established before Socialism, reinforced and solidified during Socialist period, and changes brought
	Yakusheva, N. (2019) Managing protected			Control				
	areas in Central Eastern Europe: Between			Central	Trancharindani			about by the democratic transition. For nature conservation, the transition to democracy led to new political and
Valushava et el	path-dependence and Europeanisation. Land	2010	Doland Claushic	Eastern	Transboundary,	_	Torroctrial	legal frameworks, the re-allocation of resources and land tenure changes, which Central Eastern European
Yakusheva et al.	Use Policy 87.	2019	Poland, Slovakia	Europe	Effectiveness	2	Terrestrial	countries approached differently. Accession to the European Union became an additional layer in the transition

								Inadequate Monitoring and Evaluation is often thought to hinder adaptive management of socioecological
	Waylen, K.A., Blackstock, K.L., Van Hulst, F.J.,							systems. A key influence on environmental management practices are environmental policies: however, their
	Damian, C., Horváth, F., Johnson, R.K., Kanka,							consequences for M&E practices have not been well-examined.
	R., Külvik, M., Macleod, C.J., Meissner, K. and							We examine three policy areas - the Water Framework Directive, the Natura 2000 Directives, and the Agri-
	Oprina-Pavelescu, M.M., 2019. Policy-driven							Environment Schemes of the Common Agricultural Policy - whose statutory requirements influence how the
	monitoring and evaluation: Does it support							monitored, how monitoring is carried out, and how results are used to update management, based on publicly
	adaptive management of socio-ecological			Multiple				available documentation across nine regional and national cases.
	systems?. Science of the Total Environment,			geographic			Terrestrial &	The requirements and guidelines of these policies have provided significant impetus for monitoring: however,
Waylen et al.	662, pp.373-384.	2019	All Member States	regions	Effectiveness	1	Marine	we find this policy-drivenM&E usually does not match the ideals of what is needed to inform adaptive