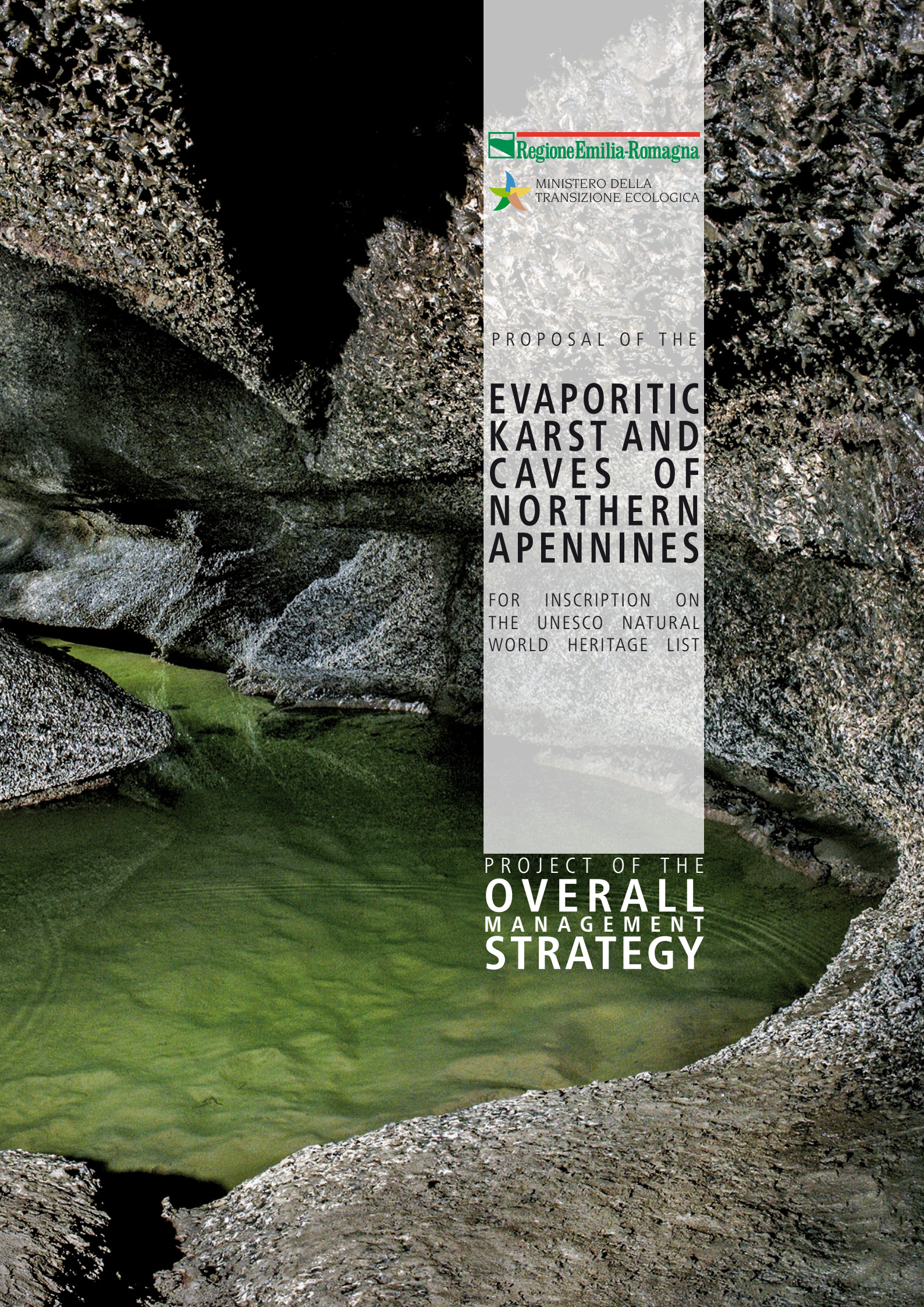


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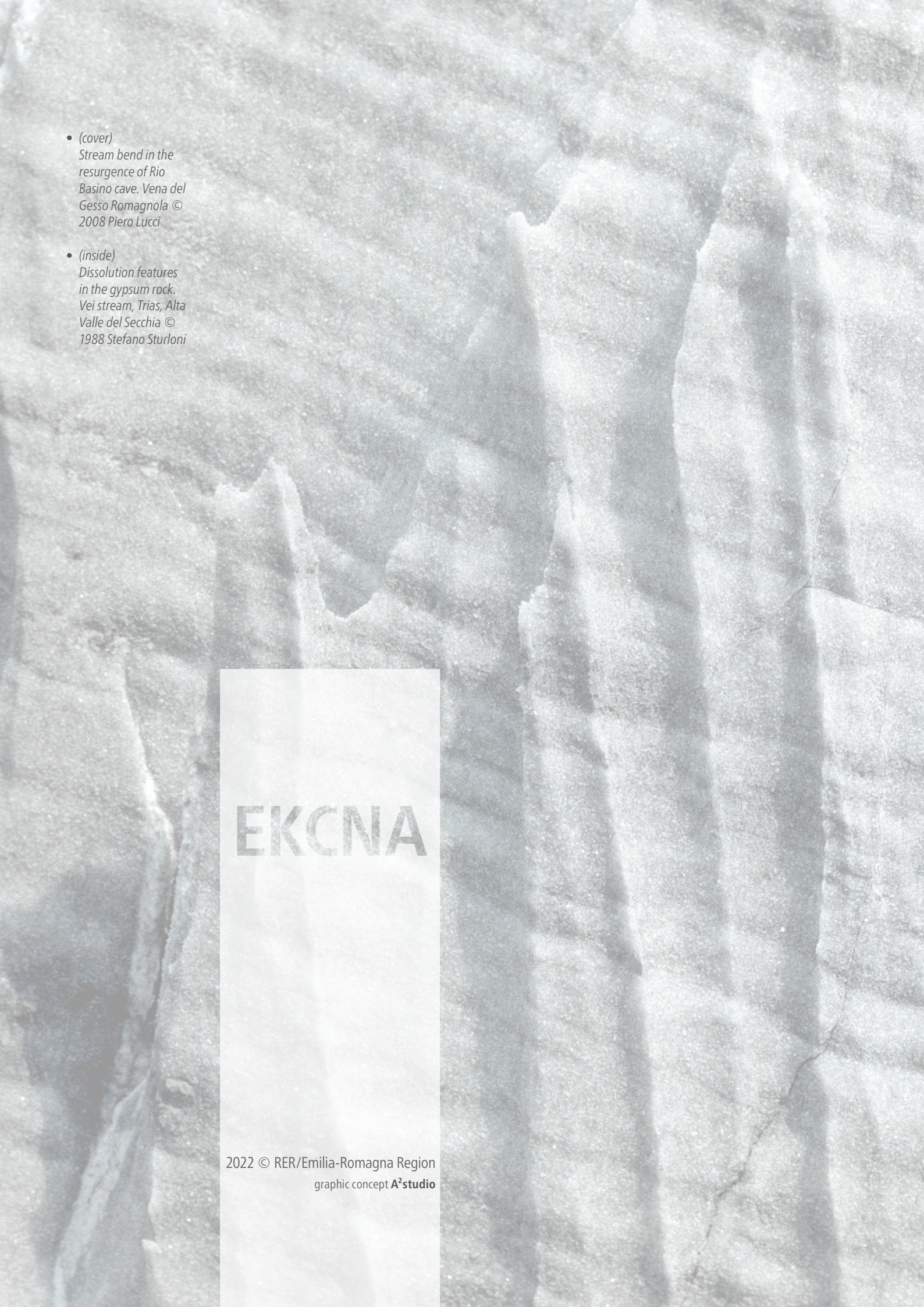
PROPOSAL OF THE

EVAPORITIC KARST AND CAVES OF NORTHERN APENNINES

FOR INSCRIPTION ON THE UNESCO NATURAL WORLD HERITAGE LIST

PROJECT OF THE

OVERALL MANAGEMENT STRATEGY



- *(cover)*
  Stream bend in the resurgence of Rio Basino cave. Vena del Gesso Romagnola © 2008 Piero Lucci

- *(inside)*
  Dissolution features in the gypsum rock. Vei stream, Trias, Alta Valle del Secchia © 1988 Stefano Sturloni

EKCNA

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graphic concept **A²studio**

RegioneEmilia-Romagna

MINISTERO DELLA TRANSIZIONE ECOLOGICA

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1. TOWARDS A SHARED VISION

The fundamental theme of the management strategy of the nominated serial property, is to enhance the variety of relationships that unite the gypsum karst areas of the Northern Apennines in a unitary, coordinated and World Heritage oriented system.

The name of the candidate property underlines the importance of this unitary key and highlights the representative characters constituted by the set of component sites united in a coherent system.

The first part of the name - **Evaporitic Karst and Caves** - indicates the vast presence of particularly representative geological features, both epigean and hypogean.

The second part - **of Northern Apennines** - indicates the belonging of the property to a region of the Earth well-identified both from the geographical-cultural and climatic point of view.

Moreover, in parallel to the preparation of the nomination document, the Region has promoted a participatory process involving all territories, which led in 2020 to the signing of an **Memorandum of Understanding** * (RER Repertoire n. 149 registered on 27/04/2020), further expanded in 2021 with the addition of new territories to the nomination project.

* *The full English text of the Memorandum of Understanding (courtesy translation) is attached at the end of this document.*

The MoU constitutes the **programmatic document of the vision of the nomination project** and manifests the undersigned entities' commitment to support and sustain the nomination in every phase, cooperating and harmonizing their actions in the territory.

The vision expressed by the MoU commits the signatories to work together, according to their role and their area of competence, to promote actions, projects, programs, and strategies towards:

- *The protection of the environmental balance and safeguard of the epigean and hypogean ecosystems;*
- *The protection and conservation of geological sites and specific geological landscape of the gypsums;*
- *The enhancement of the historical, cultural, social, and archaeological aspects of the territories; environmental education of the local people and visitors to the protected and adjacent areas;*
- *A sustainable development of the territory through best practices and promotion of compatible economic activities.*

2. PARTICIPATORY PROCESS AND STAKEHOLDER ENGAGEMENT

From the beginning, the nomination project was set up with an inclusive approach that actively and continuously involved all interested stakeholders.

The stakeholders were identified and selected from among them, who have direct and indirect management responsibility for the candidate areas and territories of the nominated property, distinguishing between:

I. **key stakeholders**, represented by the two lead management authorities directly responsible for the nominated property, i.e. the Emilia-Romagna Region and the Apennino Tosco-Emiliano National Park;

II. **institutional stakeholders**, i.e. all the administrative authorities of the territories in which the candidate areas are located;

III. **operating stakeholders** and **supporters**, i.e. all those who, in different ways, can actively collaborate in support of the property as parks, universities and research bodies, enviromental associations, speleological groups, schools and educational centres, economic and tourist operators, individuals, etc.

Each of these stakeholder categories has followed a different engagement process based on specific tasks and roles. At technical level, the involvement of the several regional departments occured through a series of interdepartmental work meetings. At political level, the involvement process of institutional stakeholders led to the signing of the aforementioned *Memorandum of Understanding* that commits all institutions to implement the actions necessary to support the nomination, forming the basis for creating the organs of governance. The authorities signing the agreement constitute the **Institutional Coordination Committee** (see the governance organization diagram) which has the essential task of agreeing on the management strategy. Concerning the operating stakeholders, most are part of the **Technical Scientific Working Group** (executive act no. 12029 of 25/07/2018 and renewal act no. 17425 of 22/08/2021), formally established to contribute with studies, in-depth analysis and research to the nomination documents.

2.A LISTS OF THE STAKEHOLDERS

I. Key stakeholders involved

- Emilia-Romagna Regional Administration
- Appennino Tosco-Emiliano National Park

II. Institutional stakeholders involved

- Management Authority for Parks and Biodiversity - Emilia Centrale
- Management Authority for Parks and Biodiversity - Emilia Orientale
- Management Authority for Parks and Biodiversity - Romagna
- Metropolitan City of Bologna
- Province of Reggio Emilia
- Province of Ravenna
- Province of Rimini
- Mountain Union of the Municipalities of Appennino Reggiano
- Union of Colline Matildiche
- Union Tresinaro - Secchia
- New District of Imola
- Union of valli Reno Lavino Samoggia
- Union of Municipalities Savena-Idice
- Union of Romagna Faentina
- Union of Municipalities of Valmarecchia
- Union of Municipalities of Valconca
- Municipality of Albinea (RE)
- Municipality of Castelnovo ne' Monti (RE)
- Municipality of Scandiano (RE)
- Municipality of Ventasso (RE)
- Municipality of Vezzano sul Crostolo (RE)
- Municipality of Viano (RE)
- Municipality of Villa Minozzo (RE)
- Municipality of Borgo Tossignano (BO)
- Municipality of Casalfiumanese (BO)
- Municipality of Fontanelice (BO)
- Municipality of Pianoro (BO)
- Municipality of San Lazzaro (BO)
- Municipality of Sasso Marconi (BO)
- Municipality of Zola Predosa (BO)
- Municipality of Brisighella (RA)
- Municipality of Casola Valsenio (RA)
- Municipality of Riolo Terme (RA)

- Municipality of Gemmano (RN)
- Municipality of San Leo (RN)

III. Operating stakeholders involved

- University of Bologna - Alma Mater Studiorum
  Departement of Biological, Geological, and Enviromental Sciences;
  Departement of Education Studies "Giovanni Maria Bertin"
- University of Modena and Reggio Emilia
  Departement of Chemical, and Geological Sciences
- Speleological Federation of Emilia-Romagna Region

2.B TECHNICAL-SCIENTIFIC WORKING GROUP

The T-S working group was established immediately after the nominated property was added to the indicative list. The working group is the first tool for engaging all categories of stakeholders as it brings together key stakeholders, the part of the institutional stakeholders that manages protected areas (the park management authorities) and operational stakeholders.

Composition

- Emilia-Romagna Regional Administration:
  RER - Department for Geology, Seismic and Soil Survey
  RER - Department for Protected Areas, Forestry and Mountains Development
  RER - Department for Territorial and Urban Planning, Transport and Landscape
  RER - Departement for Cultural Heritage
  RER - Departement for Digital Innovation, Data nad Technology
  RER - Departement for Attractiveness and Internationalization
- Management Authority for Parks and Biodiversity - Delta del Po
- Management Authority for Parks and Biodiversity - Emilia orientale
- Management Authority for Parks and Biodiversity - Emilia centrale
- Management Authority for Parks and Biodiversity - Romagna
- University of Bologna - Alma Mater Studiorum.
  Departement of Biological, Geological, and Enviromental Sciences;
  Departement of Education Studies "Giovanni Maria Bertin"
- University of Modena and Reggio Emilia
  Departement of Chemical, and Geological Sciences
- Government department responsible for monuments, landscape and historical buildings Metropolitan City of Bologna, and Provinces of Modena, Reggio-Emilia, Ferrara
- Government department responsible for monuments, landscape and historical buildings Provinces of Ravenna, Forlì-Cesena, Rimini
- Appennino Tosco-Emiliano National Park
- Speleological Federation of Emilia-Romagna Region

Calendar of main official meetings of the Technical Scientific Working Group

1. 19 January 2017
2. 27 February
3. 28 June 2018
4. 26 September 2018
5. 09 October 2018
6. 26 February 2019
7. [pandemic lockdown, videocalls not reported]
8. 15 April 2021
9. 19 July 2021
10. 29 July 2021
11. 14 September 2021
12. 21 September 2021
13. 30 September 2021
14. 22 October 2021
15. 26 November 2021
16. 15 December 2021
17. 13 January 2022

3. GOVERNANCE PROJECT

The shift in perspective from local heritage to world heritage is the leitmotif of the management strategy. The main contents are: the definition of a governance dedicated to the nominated serial property and the elaboration of a coordinated management system oriented to the conservation, enhancement and promotion of geoheritage for the benefit of future generations, through procedures of participation and involvement of stakeholders.

There are several contextual conditions that must be considered to ensure the most effective management model. In the case of the serial site of **Evaporitic karst and caves of the Northern Apennines** there are multiple aspects to be taken into account according to the characteristics of the different managing bodies and the objectives (mission) related to the World Heritage status.

The purpose of governance is to establish stable forms of collaboration among the current management authorities of the nominated serial property.

In order to ensure a unitary and homogeneous management, various possible alternatives have been considered, taking inspiration from the governance models available in World Heritage and/or international contexts. In particular, various management examples of other complex territories with physical and administrative characteristics similar to those of the candidate property were analysed:

a. properties with geological value of global importance (World Heritage List sites according to criterion viii; UNESCO Global Geoparks geosites);

b. serial properties (Italian and European serial sites inscribed in the World Heritage List; sites inscribed in the MaB programme);

On the basis of these criteria some case studies have been identified among the World Heritage serial properties which appear significant for management aspects such as:

- Caves of Aggtelek Karst and Slovak Karst (HUN-SVK);
- South China Karst (CHN), Škocjan Caves (SVN);
- The Dolomites (ITA);
- Primeval Beech Forests of the Carpathians and Other Regions of Europe (ALB, AUT, BEL, BIH, BGR, HRV, CZE, FRA, DEU, ITA, POL, ROU, SVK, SVN, ESP, CHE, UKR);
- Getbol, Korean Tidal Flats (KOR).

In addition to the governance examples offered by the serial sites included in the WHL, the current administrative-managerial characteristics of the components of the EKCNA serial site should also be considered in the evaluation.

3.A. THE CURRENT GOVERNANCE

The current system of governance consists of two main administrative authorities: the Appennino Tosco-Emiliano National Park (c.s.1) and the Emilia-Romagna Region (c.s.2-7).

The Appennino Tosco-Emiliano National Park is directly supervised by the Italian Ministry for Ecological Transition.

The component sites 2 - 7 are under the control of the Emilia-Romagna Region which directly supervise the management authorities of the regional protected areas. These management authorities (called Management Authority for Parks and Biodiversity of Central Emilia, Eastern Emilia and Romagna) are also responsible for implementing the specific conservation measures for the Natura 2000 sites that fall within their jurisdiction. Every management authorities owns a management plan, a specific budget and a dedicated staff (technical and administrative) to manage and control the respective areas. In addition, the National Park is the coordinator of the Appennino Tosco-Emiliano Biosphere Reserve UNESCO, which entirely includes c.s.1 and part of c.s.2 of the nominated serial property.

The following table summarizes the current management structure of the candidate serial property by relating the management authorities to the respective protected areas.

In the two columns on the left are listed the management authorities; in the two columns on the right, the component sites and the corresponding protected areas.

In summary, only component site 1. "Alta Valle del Secchia" is not under the responsibility of the Emilia-Romagna Region.

Administrative Authorities	Management Authorities	c.s.#	protected areas
Management Authority of Appennino Tosco-Emiliano National Park	Management Authority of Appennino Tosco-Emiliano National Park	**1**	Appennino Tosco-Emiliano National Park
			SAC - Gessi Triassici
Emilia-Romagna Region	Management Authority for Parks and Biodiversity -Emilia Centrale	**2**	Collina Reggiana Protected Landscape
			SAC - Ca' del Vento, Ca' del Lupo, Gessi di Borzano
	Management Authority for Parks and Biodiversity - - Emilia Orientale	**4**	Gessi Bolognesi and Calanchi dell'Abbadessa regional Park
			SAC - Gessi Bolognesi, Calanchi dell'Abbadessa
	Management Authority for Parks and Biodiversity - Romagna	**5**	Vena del Gesso Romagnola regional Park
			SAC - Vena del Gesso Romagnola
		7	Riserva regionale Onferno
			SAC - Onferno
	Natura 2000 Regional Office	**3**	SAC - Gessi di Monte Rocca, Monte Capra e Tizzano
		6	SAC - Rupi e Gessi della Valmarecchia

MAP OF THE CURRENT MANAGEMENT SYSTEM OF THE NOMINATED PROPERTY

Projected Coordinate System: WGS 84 Fuse 32N

Data sources: EU-DEM v.1.1 (GMES / Copernicus), CTR50K (Emilia-Romagna Region)

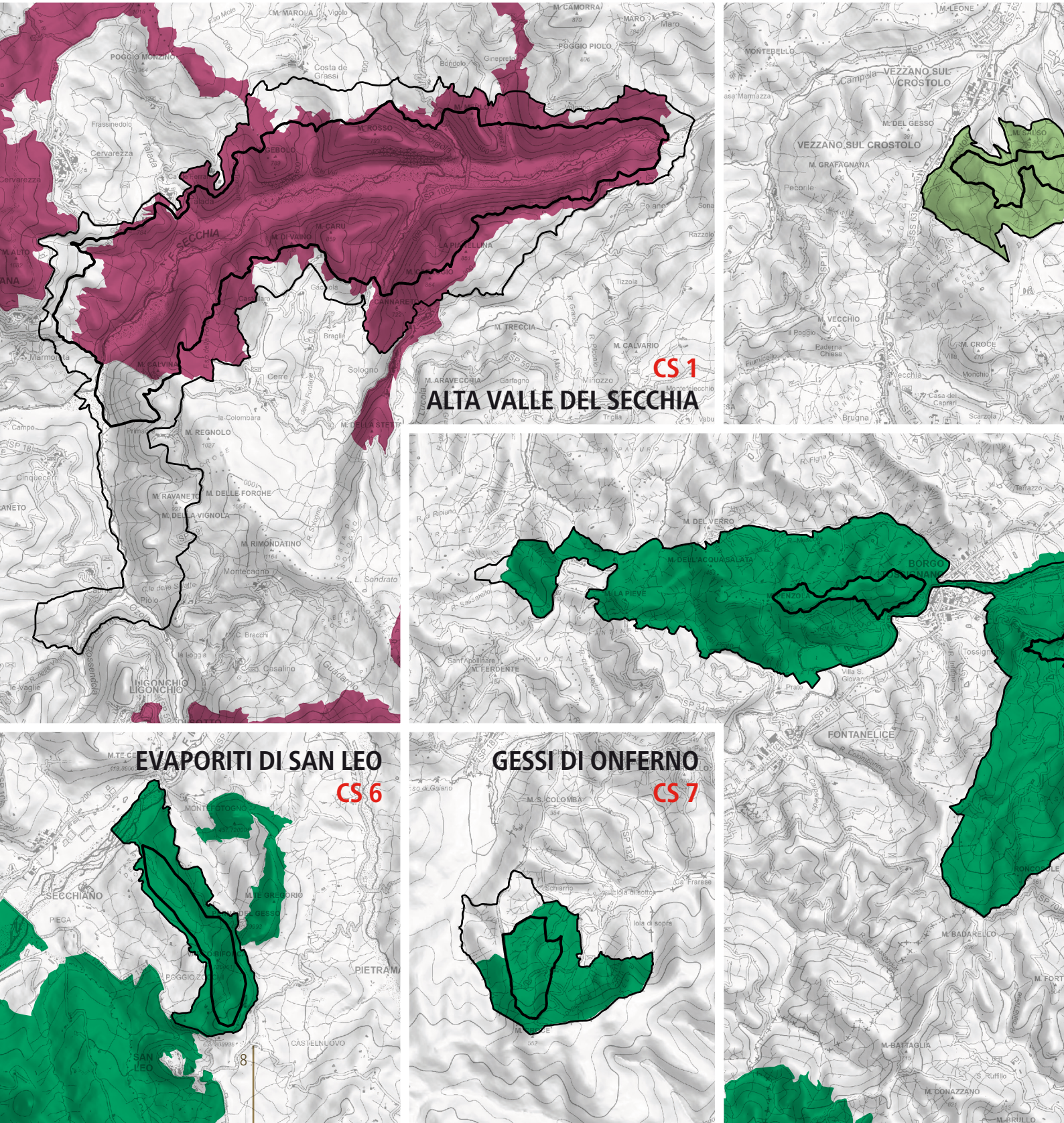
SCALE 1:75,000

buffer zone

core zone

0 1 2 km

0 1 2 mi

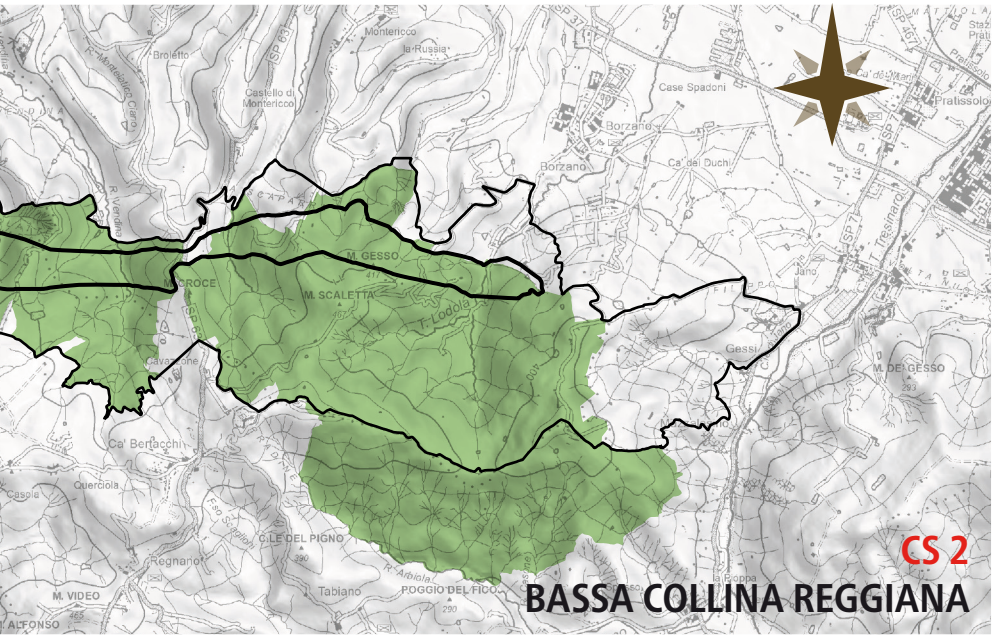


Appennino Tosco-Emiliano National Park

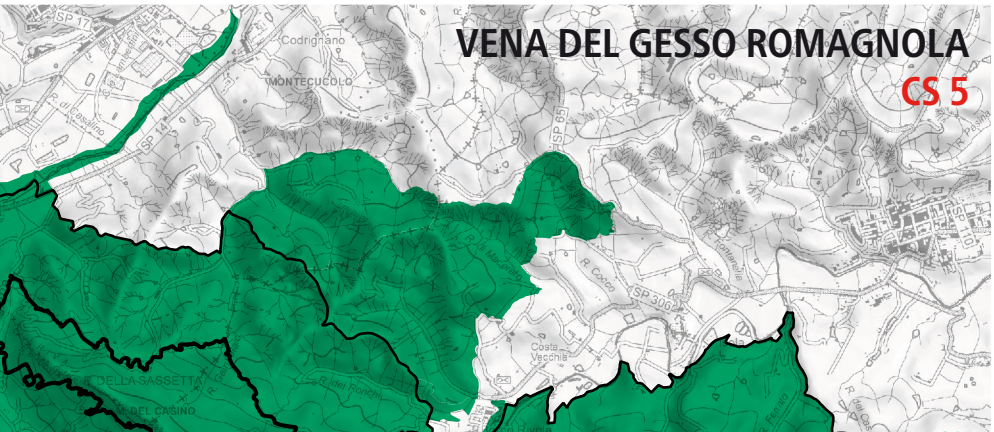
Management Authority for Parks and Biodiversity - Emilia Orientale

Management Authority for Parks and Biodiversity - Emilia Centrale

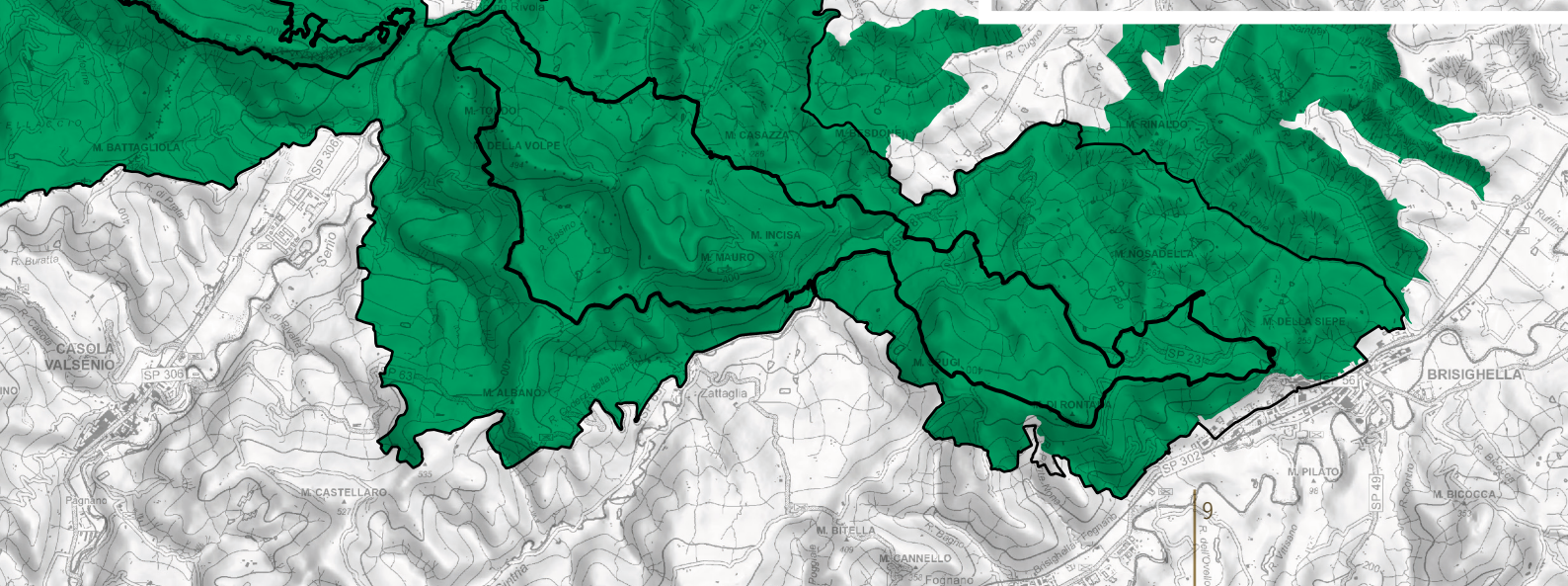
Management Authority for Parks and Biodiversity - Romagna











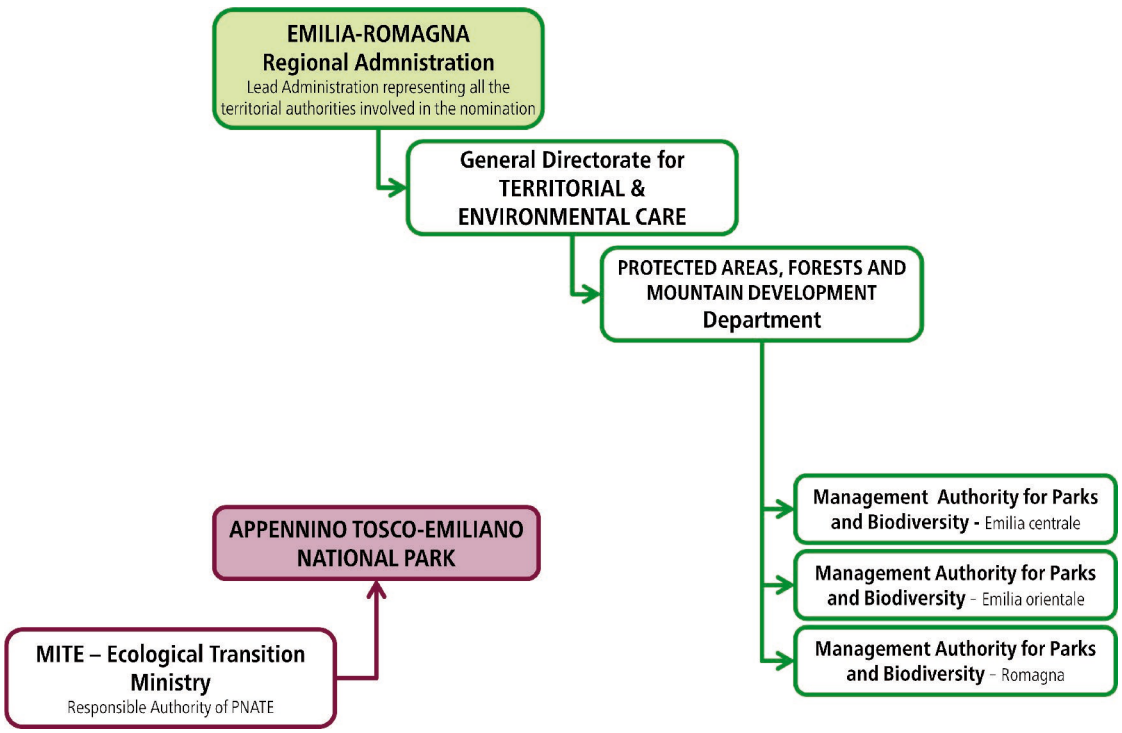
3.B. THE PROPOSED GOVERNANCE

The proposed governance system brings together the existing forms of management, without overlapping them, but creating a new coordination structure that can effectively converge the various park management bodies on shared objectives.

Considering that only the Appennino Tosco-Emiliano National Park does not depend on the Emilia-Romagna Region, the degrees of difficulty at the organisational-management level appear limited. Moreover, the decades-long collaboration between the National Park and the Emilia-Romagna Region and between the National Park and the Regional Parks - officialized by partnership protocols - is already in place for specific activities, such as participation in European projects or monitoring activities.

In this governance model, the bodies are hinged in the institutional chain (lead by Emilia-Romagna Region) that ensures the legal coverage and is the main referent subject. The connection with the other bodies that already administer and manage the various component sites should be formalized through a **Programme Agreement** (*art. 34 of Legislative Decree no. 267 of August 18, 2000 " Unified text of the laws on the organization of local authorities"*).

The flowchart below shows the functional relationships between the different agencies responsible for the main protected areas. At the moment there is no direct relationship between the National Park and the Regional Protected Areas System, although there are many common actions. The flowchart on facing page represents the implementation of the **Programme Agreement**.



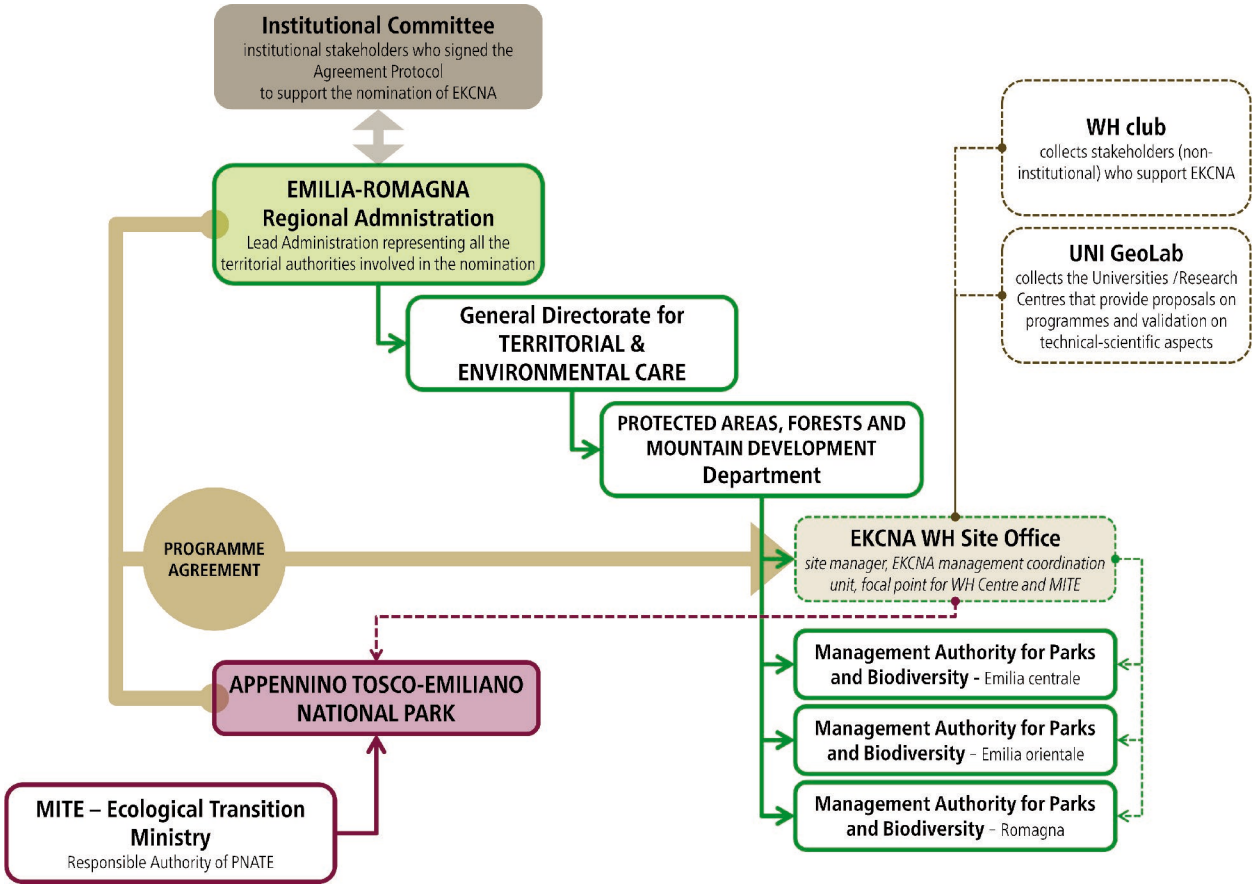
The diagrams also highlight the relationships with other Departments whose competences are relevant to the World Heritage (such as, for example, the geology, the landscape, the urban planning, the enviromental protection, the impact assessment, the hydrology protection, etc.)

Such a Programme Agreement has the advantage of being an instrument of coordination between entities provided for by the national legal system that legitimizes the start-up of projects between communities and territorial actors of the various areas, as well as being very light and flexible to different contents.

In the Italian context, there are several examples of a similar scheme (although related to historical urban centres and cultural heritage), which allow us to observe the effectiveness of this solution.

This Agreement between the Emilia-Romagna Region and the Ministry of Ecological Transition / Appennino Tosco-Emiliano National Park will establish the methods, times, and forms of coordination of the management and actions for the protection/enhancement/promotion of the property, including other very important management elements such as the administration/ seeking of funding, the financing of activities, the provision of a current management fund, etc. The Agreement will be defined in detail at the end of a sharing process.

To ensure the coordination between the two key stakeholders, an office exclusively dedicated to World Heritage and hinged in the regional administrative structure chain, will be established : the **EKCNA WH Site Office.**



Since all areas of the nominated serial property are located in the administrative territory of the Emilia-Romagna Region, the establishment of a management coordination office represents a "light" solution that does not require the formation of a Director Board, new management bodies or external support roles. Moreover, as shown in the following table of Human Resources, it can be quickly set up using human and financial resources which are available within the existing Administrations.

The involvement of stakeholders (non-institutional or NGOs) in conservation, management and promotion guidelines for the nominated property is guaranteed through the establishment of specific supporting bodies that involve universities and research centres (UNI GeoLab), or that engage individuals and associations (EKCNA WH club) in research, promotion and monitoring activities of the geological heritage.

The Office in charge of coordinating/managing the nominated WH Site must exercise coordination activities between the various implementing subjects (the Park and Biodiversity Management Authorities), which in turn are subject to the control of the Emilia-Romagna Region through the Departement for Protected Areas, Forests, and Mountain Development, which also directly manages the Natura 2000 Network sites. Therefore, in order to be able to effectively exercise the role of guidance and management co-ordination among different implementers, the EKCNA WH Site Office will be provided with the best available coordination.

3.C THE GOVERNANCE TASKS

The tasks of the governance system of a World Heritage site are summarized below:

- referent/focal point towards the World Heritage Committee and towards the Ministry of Ecological Transition;
- elaboration of periodic reports on the state of conservation of the property and on the evaluation of the maintenance of the Outstanding Universal Value over time;
- elaboration and monitoring of the Management Strategy for the promotion of conservation, valorization and sustainable management;
- referent/focal point between the various subjects/implementing bodies to coordinate the implementation of the management strategy, with particular regard to:
    a. coordination of interventions for the conservation of attributes and values related to Criterion (viii);
    b. coordination of interventions for the enhancement and promotion of the property;
    c. coordination of interventions for communication and awareness.
- promotion and coordination of links between implementing subjects and public and/or private stakeholders, operating in the territory of the property;
- implementation and monitoring of projects financed by Law no. 77 of February 20, 2006, "Special measures for the protection and use of Italian sites of cultural, landscape and environmental interest included in the "World Heritage List";
- promotion, implementation and coordination of studies and research on the conservation of the territory and its natural heritage.

On the following pages, a synoptic table shows the human resources dedicated to the nominated property. The table represents the outcome of a survey conducted by regional and park technical facilities and reflects the current staff employed in the management of each component site of the serial property, divided by full-time and part-time staff. Rangers constitute a separate specialized unit and serve under specific agreements.

Human resources

n	c.s.	*institutions*	Sources of expertise and training in conservation and management techniques					
		regional or municipal or park authority	*department / division / office*	*full-time staff*		*part-time staff*		*rangers*
1	**Alta Valle Secchia**	National Park	Nature Conservation Office	4 laureati	4	2 amministrativi	2	
			Technical Office	3 diplomati	3	2 laureati	2	5
			CTA (Coordinamento Territoriale per l'Ambiente)	2 Carabinieri Forestali	2	Guide Ambientali escursionistiche		
		Mountain Union of Municipalities				2 laureati	2	
2	**Bassa Collina Reggiana**	Management Authority for Parks and Biodiversity - Emilia Centrale	PNSP Collina Reggiana	2 laureati cat. D	2	2 guardia parco cat. C	2	
		Management Authority for Parks and Biodiversity - Emilia Centrale		1 diplomato cat. D	1	Convenzioni con corpi volontari vigilanza GGEV Reggio Emilia e GEL Reggio Emilia		10
3	**Gessi di Zola Predosa**	Emilia-Romagna Regional Administration	Servizio Aree Protette, Foreste e Sviluppo della Montagna	/		1 laureato	1	5
4	**Gessi Bolognesi**	Management Authority for Parks and Biodiversity - Emilia Orientale	Area Ambiente e Biodiversità	5 unità (4 laureati in discipline tecnico-scientifiche e 1 perito in agricoltura)	5	1 persona (laureta in discipline umanistiche)	1	30
5	**Vena del Gesso Romagnola**	Management Authority for Parks and Biodiversity - Romagna	Technical Office	n. 1 forest graduate, n. 1 geologist, n.1 naturalist graduate, n. 1 biologist, n. 1 worker	5	n. 1 forest graduate, n. 1 biologist	2	20
		Management Authority for Parks and Biodiversity - Romagna	Adiministrative Office	n. 1 administrative graduate, n. 1 accountat	2	n. 1 secretary	1	
6	**Evaporiti San Leo**	Management Authority for Parks and Biodiversity - Romagna	Technical Office	n. 1 forest graduate, n. 1 geologist, n.1 naturalist graduate, n. 1 biologist, n. 1 worker		n. 1 forest graduate, n. 1 biologist		5
		Management Authority for Parks and Biodiversity - Romagna	Adiministrative Office	n. 1 administrative graduate, n. 1 accountat		n. 1 secretary		
7	**Gessi di Onferno**	Management Authority for Parks and Biodiversity - Romagna	Technical Office	n. 1 forest graduate, n. 1 geologist, n.1 naturalist graduate, n. 1 biologist, n. 1 worker		n. 1 forest graduate, n. 1 biologist		5
		Management Authority for Parks and Biodiversity - Romagna	Adiministrative Office	n. 1 administrative graduate, n. 1 accountat		n. 1 secretary		
			TOTAL	**25**	**24**	**13**	**13**	**80**
				15 laureati + 10 diplomati		*9 laureati + 4 diplomati*		

4 DRAFT STRATEGY FOR THE MANAGEMENT COORDINATION

4.A. THE CURRENT COORDINATION MANAGEMENT SYSTEM

All protected areas and Natura 2000 Network sites that make up the nominated serial property have a management plan or regulations to implementing protective measures as prescribed by European legislation.

At the regional level, the management coordination of protected areas is implemented through two main general instruments, the "Programme for the Regional System of Protected Areas and Natura 2000 Network sites" (Programme) and the "Regional Landscape Territorial Plan" (PTPR).

The focus of the Programme is the conservation and promotion of regional biodiversity and is therefore directed to the environmental characteristics. The focus of the Landscape Plan is the protection of the landscape and is therefore oriented at safeguarding the relationship between man and environment, regulating human activities and land use.

Programme for the Regional System of Protected Areas and Natura 2000 Network sites

The harmonization of the various protected areas regulations takes place on the basis of the "Programme for the Regional System of Protected Areas and Natura 2000 Network sites" (Programme), provided for by art. 12 of the L.R. n. 6/2005. The Programme is the strategic tool that determines the regional policy on nature conservation and protected areas. The main objective is to establish the conditions to promote coordinated actions among the different categories of protected areas. The relationships concern both biological and ecosystemic aspects and opportunities for use, economic complementarities, etc.

The strategic and specific objectives, the actions, and the instruments of the Programme are the result of the consultation with the main cultural, social and institutional actors in the regional society and are inspired by the main treaties, agreements, programs, and directives defined at international, community and national level regarding the conservation of biodiversity.

The **Programme** establishes:

- the definition of the state of conservation of the natural heritage included in the system;
- the priorities for the management of the regional system of protected areas and Natura 2000 Network sites;
- the financial framework as a three-year regional program of investments in favour of the protected of the system of protected areas and Natura 2000 Network sites;
- the criteria for the distribution of regional contributions for the operation of the individual protected areas;
- the identification of the areas to be allocated to regional parks, nature reserves, protected natural and semi-natural landscapes, and ecological rebalancing areas;
- the identification of ecological connection areas at the regional level;
- any territorial modifications to existing protected areas;
- the definition of the purpose objectives of the existing protected areas.

A digital copy of the Programme text is included in the Annexes (see Annexes, folder A-7b). All Programme documentation (reports, cartography, inventories, data, etc.) are available at the webpage *https://ambiente.regione.emilia-romagna.it/it/parchi-natura2000/consultazione/Programmi-Piani-e-Regolamenti/programma-regionale/programma.*

Regional Landscape Territorial Plan (PTPR) – 1993 (revision in progress)

For the areas involved in the nominated property, the **Regional Landscape Territorial Plan (PTPR**), represents the reference planning tool for the verification of the current landscape-environmental protections.

The PTPR (approved by Regional Council Resolution n.. 1388 dated January 28th 1993 and n. 1551 dated July 14th, 1993) of the Emilia -Romagna Region is a territorial plan focused on the landscape and the environmental values.

This plan identifies the large subdivisions of physiographic types (mountain, hill, plain, coast), the thematic systems (agricultural, forest, water, settlement), and the biological, geomorphological, or settlement components that for their persistence and resistance to change, were placed as ordering elements of the growth and transformation of the regional territorial structure. It imposes constraints, directives and prescriptions that are directly effective with regard to the Provinces, Municipalities and individuals and establishes provisions aimed at protecting the entire regional territory in order to pursue the following objectives:

- *to preserve the recognizable connotations of the historical event of the territory in its complex relationships with the settled populations and with human activities;*
- *to guarantee the quality of the environment, natural and man-made, and its collective usage;*
- *to ensure the protection of the territory and its primary physical, morphological and cultural resources;*
- *to identify the actions necessary for the maintenance, restoration and integration of landscape and environmental values, including through the implementation of specific plans and projects.*

The regulations of the PTPR prevail over the regulations of subordinate plans (provincial, municipal and inter-municipal ones).

The Region is currently engaged together with the Ministry of Cultural Heritage in the process of adaptation of the PTPR in force to the Code of Cultural Heritage and Landscape (Legislative Decree 42/2004). A digital copy of the Plan Regulations is included in the Annexes (see Annexes, folder A-7b). All Plan documentation (reports, cartography, inventories, data, etc.) are available at the webpage *https://territorio.regione.emilia-romagna.it/paesaggio/PTPR*.

Regulations governing the activities in the seven component sites.

In all component sites of the nominated property, there are very similar, if not the same, regulations. This substantial homogeneity is the effect of the application of the Programme for the Regional System of Protected Areas and Natura 2000 Network sites (see the previous paragraph) and of the Regional Landscape Territorial Plan prescriptions.

The only authorized activities are exploration, scientific research, and educational dissemination.

The transformations related to human activities present in some areas (traditional agriculture, forest management, and land security) are subject to specific authorizations of the competent Authorities (parks authorities and local authorities). In the Natura 2000 network sites, any human activity that may have an environmental impact is subject to a preventive environmental impact assessment (the "Valutazione d'Incidenza Ambientale" - VINCA) that determines whether the transformation is acceptable and - if so - what measures should be taken to mitigate the impact. The opening and operation of quarries, mines and landfills, as well as the removal of minerals is forbidden in the entire property by park regulations and spatial landscape planning.

On the following pages, there is a summary of the main rules governing the activities in the seven component sites taken from the primary tools for implementing conservation measures, such as the management plans of the three natural Parks, the specific regulations of the Natural Reserve and Protected Landscape, the protection measures of the Natura 2000 sites. Full versions of the management plans and regulations are attached (see Annexes, folder A-7.b.).

Existing management tools

n	component site	*management agency*	Means of implementing protective measures
		authority / organisation	*management plans*
1	**Alta Valle Secchia**	Appennino Tosco-Emiliano National Park	**Protection Discipline** Appennino Tosco-Emiliano National Park
		Appennino Tosco-Emiliano National Park	**General and Specific Conservation Measures Management Plan** IT4030009 ZSC GESSI TRIASSICI
2	**Bassa Collina Reggiana**	Management Authority for Parks and Biodiversity - Emilia centrale	**Three-year Protection-Enhancement Programme** Collina Reggiana Protected
		Management Authority for Parks and Biodiversity - Emilia centrale	**General and Specific Conservation Measures Management Plan** IT4030017 ZSC CA' DEL VENTO, CA' DEL LUPO, GESSI DI BORZANO
3	**Gessi di Zola Predosa**	Emilia-Romagna Regional Administration	**General and Specific Conservation Measures** IT4050027 ZSC GESSI DI MONTE ROCCA, MONTE CAPRA E TIZZANO
4	**Gessi Bolognesi**	Ente di gestione per i Parchi e la Biodiversità - Emilia orientale	**Park Territorial Plan** Parco regionale dei Gessi Bolognesi e Calanchi dell'Abbadessa
		Management Authority for Parks and Biodiversity - Emilia orientale	**General and Specific Conservation Measures Management Plan** IT 4050001 - ZSC-ZPS - Gessi Bolognesi, Calanchi dell'Abbadessa
5	**Vena del Gesso Romagnola**	Management Authority for Parks and Biodiversity - Romagna	**Park Territrorial Plan** Parco regionale Vena del Gesso Romagnola
		Management Authority for Parks and Biodiversity - Romagna	**General and Specific Conservation Measures Management Plan** IT4070011 ZSC-ZPS VENA DEL GESSO ROMAGNOLA
6	**Evaporiti San Leo**	Emilia-Romagna Regional Administration	**General and Specific Conservation Measures Management Plan** IT4090003 ZSC-ZPS RUPI E GESSI DELLA VALMARECCHIA
7	**Gessi di Onferno**	Management Authority for Parks and Biodiversity - Romagna	**General and Specific Conservation Measures Management Plan** IT4090001 ZSC ONFERNO
		Management Authority for Parks and Biodiversity - Romagna	**Onferno Nature Reserve_Regulations** Riserva regionale Onferno

					% area	
application level (international, eurpean, national, regional, or local)	*approval date or last revision*	*plan term*	*next planned revision*		*core zone*	*buffer zone*
national	DPR 21/05/2001	No terms	No planned revision		43	14
european	(Misure specifiche di conservazione + piano di gestione) 2018	No terms	No planned revision		47	86
regional	Deliberazione del Comitato Esecutivo n. 76 del 27/11/2020	2023	every three-years		100	100
european	Ministero dell'Ambiente e della Tutela del Territorio e del Mare D.M. 13 marzo 2019 (Misure specifiche di conservazione + piano di gestione) 2018	No terms	No planned revision		94	73
european	Misure Generali + Misure specifiche di conservazione (2018) Delibera di Giunta regionale n. 742 del 23 maggio 2016 “Approvazione delle Misure Specifiche di Conservazione e/o dei Piani di Gestione dei Siti Natura 2000 della Regione Emilia-Romagna”	No terms	No planned revision		100	92
regional	Delibera di Giunta regionale n. 348 del 31 marzo 1998 (Piano Territoriale Parco) 2005	No terms	No planned revision		100	100
european	Delibera di Giunta regionale n. 742 del 23 maggio 2016 “Approvazione delle Misure Specifiche di Conservazione e/o dei Piani di Gestione dei Siti Natura 2000 della Regione Emilia-Romagna” Misure Generali + Misure specifiche di conservazione (2018) + piano di gestione	No terms	No planned revision		100	85
regional	2005 (atto istitutivo)	No terms	No planned revision		100	100
european	(Misure specifiche di conservazione + piano di gestione) 2018	No terms	No planned revision		100	78
european	(Misure specifiche di conservazione + piano di gestione) 2018	No terms	No planned revision		100	100
european	2018	No terms	No planned revision		100	70
regional	2006	No terms	No planned revision		100	70

4.B OVERALL MANAGEMENT SYSTEM

The perspective introduced with the nomination project considers the evaporitic karst areas of the Northern Apennines as connected by genetic relationships to form a coherent and correlated whole. The management plans of each protected area - together with the existing coordination tools - ensure the protection of all component sites. Thus, the central focus of the proposed overall management strategy is the coordination of management actions already applied and their orientation to World Heritage requirements.

Key management issues include the protection of the attributes and values of the geoheritage, conservation measures for habitats and species of Community interest, knowledge and communication of the environments, education and enhancement of the visitor experience. The central aim is the maintenance of the integrity of the nominated serial property as a whole, so the proposed strategy is articulated following some concepts widely shared at international level: conservation and protection / valorisation / communication.

The presence of stratified competences and forms of management on the candidate property also requires a coordinated and inclusive management strategy.

The coordination principles of the proposed management strategy are the following:

- developing existing collaboration among protected areas (see the collaboration experience of the LIFE Gypsum project);
- networking knowledge and experience between Regional Park and National Park Management Authorities;
- enhancing geological scientific value by focusing on seriality and connecting factors among the component sites;
- applying principles of connectivity conservation to reinforce the value of the seriality;
- applying principles of social equity and inclusion to give opportunities of experience to people with disabilities;
- supporting the sustainable development of the territory through best practices of collaboration and compatible uses of the territory.

5. SHARED ACTION PLAN

The project has identified a number of central themes on which to converge the experience and expertise already present locally through mutual collaboration. The aim is to build widespread knowledge and awareness of the outstanding universal values, both among the resident population and among visitors.

The actions identified, to be activated in a coordinated manner, relate to the following themes:

GeoHeritage:

1. protection of the continuity of epigean and hypogean ecosystems;
2. promotion of in-depth and coherent knowledge of the geological values spread over the territory as an exceptional testimony of the Earth's history (e.g. inventory of speleothems;
3. identification of unitary principles of geo-heritage protection to be included in planning instruments (e.g. by integrating the perimeter of the serial property in the planning cartography);

4. strengthening common geoprotection measures to be applied locally;
5. activation of exchange and collaboration with other World Heritage sites that are comparable in scientific or organisational terms.

GeoTourism:

1. increasing the quality of tourism (both domestic, neighbouring the property, and incoming tourism) by managing present-day flows and improving attractiveness (e.g. by creating visitor itineraries that combine and summarize elements of both epigean and hypogean geological values);
2. defining a visual identity project of the serial property to promote the understanding of geologic values to the broader public;
3. promoting accessibility to the property by persons with disabilities and the application of inclusive design principles for visiting facilities (interpretation centres, outdoor museum routes, accessible nature routes, etc.)
4. reinforcing the attractiveness by creating routes (geo-trails) that cover all the geological values;
5. introducting practices of "geocaching" and design of applications/software for the understanding of the geological value of each component of the serial property;
6. promoting the network of interpretation centres and thematic museums, for the dissemination of the geological value of the nominated property;
7. promoting the network of tourist facilities (refuges, guest houses, B&Bs, restaurants, refreshment points, etc.).

Knowledge and Training:

1. promoting the knowledge of geological values of the nominated property through school education and the professional training of operators;
2. promoting the knowledge of the UNESCO values, associated with the status of world heritage, through school education and the professional training of operators;
3. promoting the creation of the network of museums in the territory;
4. promoting the creation of a computerised repertoire (bibliographic, photographic, iconographic) specific to the EKCNA site, according to the OUV;

sustainable development and cooperation between the single components:

1. to reduce anthropogenic pressure factors and the conservation of the natural heritage based on the exemplary experiences of parks and protected areas;
2. to orientate conservation activities and the promotion of the territory's values towards a progressive integration of the actions promoted by the individual management bodies;
3. to identify good practices developed by each park or protected area and extension to all the component sites of the serial property.

6. FINANCING SOURCES

For the nomination project, the technical offices of the administrations and parks have analyzed in detail the resources currently allocated to each component site of the serial property, also highlighting possible sources of future funding for the next seven years. The result of this analysis is the base for the paragraph on financial resources in chapter 5 of the nomination dossier, which is included here in its entirety.

This analysis is also the basis for the development of a specific sustainable financing plan for the nominated serial property, which is an integral part of the overall management strategy. The financing plan will identify the public and private funding sources, develop a set of activities for resourcing, and define the steps for the activation of multi-year funding programmes.

Finance sources per component site – average annual budget in €

no.#	component site	institution	funding source	current expenditure	capital expenditure
1	**Alta Valle del Secchia**	Park Authority	national	20,000	60,000
			European		50,000
			regional		50,000
2	**Bassa Collina Reggiana**	Park Authority	regional and local	5,000	50,000
3	**Gessi di Zola Predosa**	Regional Authority	regional	5,000	30,000
4	**Gessi Bolognesi**	Park Authority	regional	90,000	200,000
5	**Vena del Gesso Romagnola**	Park Authority	regional	300,000	75,000
		Municipality	local	50,000	25,000
6	**Evaporiti San Leo**	Regional Authority	data not available		
7	**Gessi di Onferno**	Park Authority	regional	50,000	
			local		5,000
			TOTAL	**535,000**	**545,000**
			Main source (RER)	450,000	55,000
				84%	*65%*

6.A ECONOMIC FRAMEWORK OF THE NOMINATED PROPERTY

The financing sources of the nominated areas are public, namely national, regional and municipal.

The Emilia-Romagna Region is the main source of financing as it directly manages most of the candidate territory. At present, the Region contributes 84% of the current expenditure and 65% of the capital expenditure. The average annual budget (calculated over the period of the last 5 years) is about 1,100,000 € (about 300 €/ha), nearly exactly balanced in half between current and capital expenditure.

In addition to this ordinary funding, must be mentioned the Region's special investment programs for regional protected areas and, in perspective, national funds for the conservation and enhancement of World Heritage List sites, established by Law n. 77/2006.

In particular, for the three years 2021-2023, the Region has approved an "Investment Programme for Parks and Protected Areas" intended for projects of environmental requalification and

enhancement and biodiversity conservation. This three-years investment programme is planned by the Programme for the Regional System of Protected Areas and Natura 2000 Network sites.

Furthermore, the Region has recently approved the PAF - Prioritised Action Frameworks - a strategic document that is an integral part of the new programming cycle of the European Funds for 2021-2027. Based on the PAF, for the next seven years, the Natura 2000 sites belonging to the nominated Property will count on specific investments for carrying out concrete actions of protection, regulation, monitoring, training, and dissemination.

Finally, National Law n.77/2006 supports specific interventions for the protection, promotion and enhancement of the Italian UNESCO sites. In particular the Law supports the elaboration of management plans for listed sites, which entail special measures for the OUV conservation.

Thanks to these programmes and this national law, the additional funding earmarked for nominated areas could reach around one million euros per year.

7. COORDINATED MONITORING

Development of monitoring protocols to be applied across all component sites of the candidate property. Identification of priority issues to be monitored and selection of key indicators. A long-term monitoring system has been set up, using ground- and underground-based observations, for improved evaluation of ecological state of karst aquifers, seismo-tectonic movements and climate cave conditions. Key aspects of the property's flora and fauna are also monitored. As with the definition of the economic framework, for the nomination project the technical offices of the administrations and parks have drawn up an analytical inventory of all the monitoring programs currently in place in the nominated areas, based on a set of indicators significant for monitoring pressures. The set of indicators was chosen on the basis of the pressure factors contained in the List of factors affecting the properties adopted by the World Heritage Committee. The indications of the international literature were also taken into account.

The result of this analysis is the basis for the chapter on monitoring in the nomination dossier. This analysis is also the basis for the development of future monitoring protocols based on specific indicators.

Key indicators for measuring state of conservation

The major part of the factors influencing the geo-heritage state of conservation concern not only the nominated phenomenon, but also the wide area that contains the Property and the various elements that contribute to the natural evolution of the karst features in the Northern Apennines (e.g. climatic aspects).

For this reason, monitoring activities are carried out both at regional and national level by land management and protected areas agencies; some factors are also monitored at European level. At the moment, the main aspects that directly and indirectly influence the conservation of the entire geo-heritage in the nominated area are investigated by monitoring:

- caves
- streams and rivers
- gravitational mass movement and erosion phenomena
- earthquakes
- weather and climate
- forest cover and land use
- tourism pressure
- access roads and trails.

Details of the agencies and institutions responsible for monitoring, and the frequency of the surveys, are given in the attached table.

7.A. GEOLOGY AND HYDROGEOLOGICAL VULNERABILITY

The factors determining geological and hydrogeological vulnerability were considered on the basis of the scientific literature on geomorphological and karst phenomena monitoring (EPA - Quinlan J.F. 1989; IGRACT 2008; RER 2005; Renard K. G. et al. 1997).

These factors can affect the candidate phenomenon both negatively and positively. On the one hand, they may record or determine the physical disappearance and fragmentation of key attributes; or they may affect the physical accessibility of caves. On the other hand, the same factors may also create the conditions for the discovery of new caves or exposing new attributes.

The key indicators are developed in detail in par. 6.a.1 of the nomination Dossier.

7.B. HABITATS AND CLIMATE

The ecological conditions of habitats are very useful indicators for monitoring the conservation status of underground karst systems. Monitoring is carried out at the regional level with the support of universities and speleological associations. Climate factors paly also have an important role on the state of conservation of the underground cave system, in relation to two elements that characterise the karst phenomenon:

d. at the hypogeal level, the interaction between precipitation and the underground water circulation system;

e. at epigean level, in relation to the geographical-climatic location of the phenomena. In fact, this second factor distinguishes the nominated property from many other sites with similar karst phenomena (see par. 3.2).

The monitoring of these global factors, which are not influenced by anthropogenic activities of local origin, is continuously carried out both at the regional and the national level, so that their effects are known. It should also be emphasized that constant monitoring of cave climate indicators (temperature and humidity) provides information on the response of underground karst systems to global climate change.

The key indicators are developed in detail in par. 6.a.2 of the nomination Dossier.

7.C. HUMAN ACTIVITIES

Human activities affecting the state of conservation of the nominated area can be grouped into two macro-categories. The first one is directly related to the exploitation of subsoil resources (quarrying activities). These activities, which can potentially alter or destroy the geo-heritage, are very localised and are strictly regulated by the regional legislation (see par. 5.d); the few existing activities outside the core areas are permanently monitored at the regional level.

Agricultural activity, which is much less invasive but a little more widespread, is however regulated and monitored at the regional level and at the level of the single Park or protected area. The second macro-category includes the effects deriving from proximity to intensely anthropized areas (settlements, tourist attractions, pollution, depression from abandonment). These factors produce differentiated forms of pressure on individual component sites and do not occur in a diffuse form but a few well-localized places. In these locations, the combination of pressure factors could lead locally to the alteration or loss of legibility of the processes or attributes that contribute to the exceptional geologic value. However, these situations are known, and continuous monitoring ensures that pressure factors are kept under control.

The key indicators are developed in detail in par. 6.a.3 of the nomination Dossier.

7.D. OTHER FACTORS

Communication of the speleological and geological values of the nominated property is strategic to its conservation. Monitoring the communication of values and attributes, which constitute the basis of the outstanding scientific value, ensures sufficient information - about the site as a whole and its individual components - to meet the requirements of all stakeholders, from the specialist to the generalist groups. The key indicators are developed in detail in par. 6.a.4 of the nomination Dossier.

7.E. ADMINISTRATIVE ARRANGEMENTS FOR MONITORING PROPERTY

Generally, the current administrative arrangements for monitoring the state of conservation within the nominated property can be considered adequate for the evaporitic karst values and attributes. As noted, all the 7 component sites are located within Parks (national and regional) or Natura 2000 Network protected areas, whose management plans clearly establish the monitoring framework for biotic aspects (habitats and climate) and those related to educational and training activities (education and communication). Regarding the geological and hydrogeological aspects, the monitoring of karst systems is regulated at regional and national level, including aspects related to human activities pressure.

The National Institutes, Regional Agencies, management Authorities, and Associations guarantee a constant survey frequency and the indicators used are fully relevant to the objectives of protection and conservation of the geo-heritage. The public administrations and structures from which the data populating the indicators are collected are listed in the followin table.

7.F. RESULTS OF PREVIOUS REPORTING EXERCISES

There are many reports of environmental monitoring related to protected areas and Natura 2000 habitats, carried out by parks and protected areas management bodies. The activities are **the monitoring of flora and fauna characteristic of cave environments** (such as bat populations), **the biological monitoring of the groundwater fauna** ("Trias project") but also **of water quality and anthropic activities** (such as agricultural or mining exploitation). Several monitoring reports were produced as part of European projects by one or more parks in collaboration with the Emilia-Romagna Region or research institutes.

The LIFE+GYPSUM project (2010-2016) is particularly significant. It has involved several of the component sites: the Gessi Bolognesi e Calanchi dell'Abbadessa Regional Park as project leader, the Appennino Tosco-Emiliano National Park, the Vena del Gesso Romagnola Park, and the Onferno Nature Reserve. For this reason, it represents a considerable coordination experience among the protected areas of the nominated property. As part of the project, several monitoring activities have been carried on the habitats associated with gypsum outcrops characterized by karst phenomena.

Generally, considering that 6 out of 7 sites are under the direct responsibility of the Emilia Romagna Region, which ensures the entire administrative chain and manages most of the Agencies and Monitoring Institutes, the integrated coordination represented an added value for the previous reporting exercises. Furthermore, the activities of the Regional Parks and the National Park are already geo-heritage-oriented and therefore the experience acquired in the definition of the geo-tourism potential and the responsible and sustainable tourism, will be particularly useful to steer the monitoring actions of the nominated property.In addition, it should not be forgotten that the high level of scientific knowledge, linked to the particular accessibility of the sites and the proximity to international university and research centres, leads to the publication of countless scientific articles every year. Most of these articles are related to research and monitoring of the main geological, biological, hydrological, floristic and faunistic factors. The monitoring reports are attached and an example of this extensive scientific production is available in the annex.

6.1 Monitoring + Key indicators

themes	*focus*	*key indicators*	Institutions, agencies responsible for the monitoring	
			name	*address*
GEOLOGY AND HYDRO-GEOLOGICAL VULNERABILITY	**erosion/solids transport**	loss of land through cementing and infrastructure	ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale)	ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale Via Vitaliano Brancati, 48 - 00144 Roma (I) Sabrina Panico (ISPRA) consumosuolo@isprambiente.it
			SNPA (Sistema Nazionale per la Protezione dell'Ambiente).	Sede Snpa: Via Vitaliano Brancati, 48 – 00144 Roma
		soil loss due to erosion and instability Soil loss for Hydrologic Erosion (Mod. RUSLE, 1997-2015)	Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274791
			JOINT RESEARCH CENTRE - EUROPEAN SOIL DATA CENTRE (ESDAC)	ec-esdac@ec.europa.eu
			ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale)	ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale Via Vitaliano Brancati, 48 - 00144 Roma (I)
	slope instability	number of landslides	Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792 Ref. Marco Pizziolo
			Agenzia Regionale per la Sicurezza Territoriale e la Protezione Civile	Viale Silvani, 6 - 40122, Bologna. Tel. +39(0)515274404
			ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale)	ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale Via Vitaliano Brancati, 48 - 00144 Roma (I) Referenti: Alessandro Trigila e Carla Iadanza
		number of deep gravitational slope deformations	Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792 Ref. Marco Pizziolo
			Agenzia Regionale per la Sicurezza Territoriale e la Protezione Civile	Viale Silvani, 6 - 40122, Bologna. Tel. +39(0)515274404
			ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale)	ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale Via Vitaliano Brancati, 48 - 00144 Roma (I) Referenti: Alessandro Trigila e Carla Iadanza
	hydrographic and hydrogeological conditions	chemical and physical source water parameters	ARPAE - Agenzia Regionale Prevenzione, Ambiente ed Energia Emilia-Romagna	Via Po, 5 – 40139, Bologna centralino: 051 6223811
			Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792
			Regione Emilia-Romagna - Servizio Tutela e Risanamento Acqua, Aria e Agenti Fisici	viale della Fiera, 8 40127 Bologna tel. 051 527 6980-6041 fax. 051-5276874 Ambpiani@regione.emilia-romagna.it
		morphological quality index	ARPAE - Agenzia Regionale Prevenzione, Ambiente ed Energia Emilia-Romagna	Via Po, 5 – 40139, Bologna centralino: 051 6223811
			Regione Emilia-Romagna - Servizio Tutela e Risanamento Acqua, Aria e Agenti Fisici	viale della Fiera, 8 40127 Bologna tel. 051 527 6980-6041 fax. 051-5276874 Ambpiani@regione.emilia-romagna.it
		No. of nodes hydrometric monitoring networks	Agenzia Regionale per la Sicurezza Territoriale e la Protezione Civile	Viale Silvani, 6 - 40122, Bologna. Tel. +39(0)515274404
		groundwater table level	ARPAE - Agenzia Regionale Prevenzione, Ambiente ed Energia Emilia-Romagna	Via Po, 5 – 40139, Bologna centralino: 051 6223811
			Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792 - Ref. Paolo Severi

	monitoring database		frequency			monitoring level		
website	*open source (url)*	*reserved*	*occasional*	*periodic*	*continuous*	*regional*	*national*	*european*
https://www.isprambiente.gov.it/it/attivita/suolo-e-territorio/il-consumo-di-suolo/il-consumo-di-suolo	https://www.isprambiente.gov.it/it/banche-dati/banche-dati-folder/suolo-e-territorio/uso-del-suolo	https://www.isprambiente.gov.it/en/activities/soil-and-territory/soil-consumption		X			X	
https://www.isprambiente.gov.it/it/attivita/suolo-e-territorio?set_language=en	Munafò, M. (a cura di), 2021. Consumo di suolo, dinamiche territoriali e servizi ecosistemici. Edizione 2021. Report SNPA 22/21 https://www.snpambiente.it/2021/07/14/consumo-di-suolo-dinamiche-territoriali-e-servizi-ecosistemici-edizione-2021/		4	X			X	
https://ambiente.regione.emilia-romagna.it/it/geologia/suoli/	https://datacatalog.regione.emilia-romagna.it/catalogCTA/dataset/r_emiro_2019-12-10t145003	+ Monitoraggio applicazione L.R.24/2017 (derivata dalla L. 132/2016)		X		X		
https://esdac.jrc.ec.europa.eu/	https://esdac.jrc.ec.europa.eu/content/soil-erosion-water-rusle2015			X				X
https://www.isprambiente.gov.it/it/attivita/suolo-e-territorio/il-degrado-del-suolo/erosione-del-suolo	https://annuario.isprambiente.it/sys_ind/50			X			X	
https://ambiente.regione.emilia-romagna.it/it/geologia	https://ambiente.regione.emilia-romagna.it/it/geologia/cartografia/webgis-banchedati/cartografia-dissesto-idrogeologico	yes		X		X		
https://protezionecivile.regione.emilia-romagna.it/	https://allertameteo.regione.emilia-romagna.it/				X	X		
https://idrogeo.isprambiente.it/app/	https://idrogeo.isprambiente.it/app/iffi?@=41.55172525894153,12.57350148381829,1			X			X	
https://ambiente.regione.emilia-romagna.it/it/geologia	https://ambiente.regione.emilia-romagna.it/it/geologia/cartografia/webgis-banchedati/cartografia-dissesto-idrogeologico	yes		X		X		
https://protezionecivile.regione.emilia-romagna.it/	https://allertameteo.regione.emilia-romagna.it/				X	X		
https://idrogeo.isprambiente.it/app/	https://idrogeo.isprambiente.it/app/iffi?@=41.55172525894153,12.57350148381829,1			X			X	
https://www.arpae.it/it	https://www.arpae.it/it/dati-e-report/dati-ambientali	Si, anche , ma se è reserved mica ve lo possiamo dire…			X	X		
https://ambiente.regione.emilia-romagna.it/it/geologia/geologia/acque/risorse-montagna/le-acque-sotterranee-dellappennino-emiliano-romagnolo	https://ambiente.regione.emilia-romagna.it/it/geologia/cartografia/webgis-banchedati/sorgenti-unita-geologiche-sede-acquiferi-appennino			X				
https://ambiente.regione.emilia-romagna.it/it/acque/servizio-tutela-risanamento-acqua	no			X				
https://www.arpae.it/it	https://www.arpae.it/it/dati-e-report/dati-ambientali	yes			X	X		
https://ambiente.regione.emilia-romagna.it/it/acque/servizio-tutela-risanamento-acqua	no			X				
https://protezionecivile.regione.emilia-romagna.it/	https://allertameteo.regione.emilia-romagna.it/				X	X		
https://www.arpae.it/it	https://www.arpae.it/it/dati-e-report/dati-ambientali	yes			X			
https://ambiente.regione.emilia-romagna.it/it/geologia/geologia/acque	https://ambiente.regione.emilia-romagna.it/it/geologia/geologia/acque/risorse-idriche-pianura/monitoraggi			X		X		

6.1 Monitoring + Key indicators

themes	*focus*	*key indicators*	Institutions, agencies responsible for the monitoring	
			name	*address*
			Regione Emilia-Romagna - Servizio Tutela e Risanamento Acqua, Aria e Agenti Fisici	viale della Fiera, 8 40127 Bologna tel. 051 527 6980-6041 fax. 051-5276874 Ambpiani@regione.emilia-romagna.it
	seismology	number of earthquakes	INGV - Istituto Nazionale Geofisica e Vulcanologia	Via di Vigna Murata 605 00143, Roma Tel. +39 06 518 601
		extent of damage to infrastructure	Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792
			Agenzia Regionale per la Sicurezza Territoriale e la Protezione Civile	Viale Silvani, 6 - 40122, Bologna. Tel. +39(0)515274404
			Dipartimento di Protezione Civile - Di.Coma.C (Direzione di Comando e Controllo)	Via Ulpiano, 11 - 00193 Roma Tel. (+39) 06 68201
			Agenzia regionale per la ricostruzione – Sisma 2012 (Dir. Enrico Cocchi)	----------
			Nucleo di Valutazione Regionale (NVR) composto dai tecnici della Regione e degli enti locali	----------
		number of municipalities with seismic zoning	INGV - Istituto Nazionale Geofisica e Vulcanologia	Via di Vigna Murata 605 00143, Roma Tel. +39 06 518 601
			Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792
	floods	number of floods	Agenzia Regionale per la Sicurezza Territoriale e la Protezione Civile	Viale Silvani, 6 - 40122, Bologna. Tel. +39(0)515274404
			ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			Regione Emilia-Romagna - Servizio Difesa del Suolo, della Costa e Bonifica	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515276811
			ADBPo (Autorità di bacino distrettuale del fiume Po)	Via Garibaldi, 75 – 43100 Parma Tel. 0521 2761 e-mail: urp@adbpo.it e-mail: segreteria@adbpo.it
HABITATS	**ecological conditions**	ecological state of karst acquifers	Regione Emilia-Romagna - Servizio Aree Protette, Foreste e Sviluppo della Montagna	Viale Aldo Moro 30, 40127 Bologna tel. +39 (0)51 527 6080
			ARPAE - Agenzia Regionale Prevenzione, Ambiente ed Energia Emilia-Romagna	Via Po, 5 – 40139, Bologna centralino: 051 6223811
			EdG Macroaree(tramite incarichi a FSRER)	
		number of faunal communities	Regione Emilia-Romagna - Servizio Aree Protette, Foreste e Sviluppo della Montagna	Viale Aldo Moro 30, 40127 Bologna tel. +39 (0)51 527 6080
			EdG Macroaree(tramite incarichi a FSRER)	
		number of floral communities	Regione Emilia-Romagna - Servizio Aree Protette, Foreste e Sviluppo della Montagna	Viale Aldo Moro 30, 40127 Bologna tel. +39 (0)51 527 6080
			EdG Macroaree(tramite incarichi a FSRER)	
CLIMATE	**surface conditions**	surface temperature	ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			PN Appennino TE + EdG Macroaree	
		precipitation	ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			PN Appennino TE + EdG Macroaree	
	cave conditions	cave temperature	EdG Macroaree(tramite incarichi a FSRER)	
		humidity	EdG Macroaree(tramite incarichi a FSRER)	
HUMAN ACTIVITIES	**quarrying**	number of concessions by type of extracted material	Regione Emilia-Romagna - Servizio Difesa del Suolo, della Costa e Bonifica	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515276811

	monitoring database		frequency			monitoring level		
website	*open source (url)*	*reserved*	*occasional*	*periodic*	*continuous*	*regional*	*national*	*european*
https://ambiente.regione.emilia-romagna.it/it/acque/servizio-tutela-risanamento-acqua	no			X		X		
https://www.ingv.it/	http://terremoti.ingv.it/				X		X	
https://ambiente.regione.emilia-romagna.it/it/geologia			X			X		
https://protezionecivile.regione.emilia-romagna.it/	https://protezionecivile.regione.emilia-romagna.it/rischi-previsione-prevenzione/programma-nazionale-soccorso-rischio-sismico		X			X		
https://www.protezionecivile.gov.it/it/	https://mappe.protezionecivile.gov.it/it/		X				X	
https://www.sisma2012.it/	----------		X			X		
	----------		X			X		
https://www.ingv.it/	http://zonesismiche.mi.ingv.it/		X				X	
https://ambiente.regione.emilia-romagna.it/it/geologia/sismica	https://ambiente.regione.emilia-romagna.it/it/geologia/sismica/microzonazione-sismica				X	X		
https://protezionecivile.regione.emilia-romagna.it/rischi-previsione-prevenzione/direttiva-alluvioni	https://protezionecivile.regione.emilia-romagna.it/immagini-600x400/emergenze/alluvioni	yes	X			X		
https://www.arpae.it/it/temi-ambientali/meteo	https://www.arpae.it/it/temi-ambientali/meteo/report-meteo/annali-idrologici	yes		X		X		
https://ambiente.regione.emilia-romagna.it/it/suolo-bacino/sezioni/piano-di-gestione-del-rischio-alluvioni/piano-gestione-del-rischio-alluvioni	----------			X		X		
https://pianoalluvioni.adbpo.it/	https://pianoalluvioni.adbpo.it/monitoraggio/		X				X	
https://ambiente.regione.emilia-romagna.it/it/parchi-natura2000/aree-protette/aree-protette-in-er/aree-protette-1	----------		nd	nd	nd	X		
https://www.arpae.it/it/temi-ambientali/acqua/report-bollettini/acque-sotterranee	https://www.arpae.it/it/temi-ambientali/acqua/dati-acque/acque-sotterranee			nd				
			nd	nd	nd	X		
https://ambiente.regione.emilia-romagna.it/it/parchi-natura2000/aree-protette/aree-protette-in-er/aree-protette-1	----------		nd	nd	nd	X		
			nd	nd	nn	X		
https://ambiente.regione.emilia-romagna.it/it/parchi-natura2000/aree-protette/aree-protette-in-er/aree-protette-1	----------		nd	nd	n	X		
			nd	nd	nd	X		
https://www.arpae.it/it/temi-ambientali/meteo	https://www.arpae.it/it/temi-ambientali/meteo/dati-e-osservazioni/dati-giornalieri	yes			X	X		
						X	X	
https://www.arpae.it/it/temi-ambientali/meteo	https://www.arpae.it/it/temi-ambientali/meteo/dati-e-osservazioni/dati-giornalieri	yes			X	X		
						X	X	
						X		
						X		
https://ambiente.regione.emilia-romagna.it/it/suolo-bacino/argomenti/attivita-estrattive-e-minerarie	Esiste ma forse non è di pubblico accesso	Catasto Attività Estrattive Emilia-Romagna			X			

6.1 Monitoring + Key indicators

themes	*focus*	*key indicators*	Institutions, agencies responsible for the monitoring	
			name	*address*
		number of interventions of environmental restoration and rehabilitation	Regione Emilia-Romagna - Servizio Difesa del Suolo, della Costa e Bonifica	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515276811
		area extensions	Regione Emilia-Romagna - Servizio Difesa del Suolo, della Costa e Bonifica	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515276811
	inhabitants	number of inhabitants	ISTAT – Istituto nazionale di statistica	Via Cesare Balbo, 16 – 00184 Roma tel. +39 06 46731
		mobility data	Regione Emilia-Romagna - Servizio Trasporti e Mobilità	Regione Emilia-Romagna Viale Aldo Moro, 52 40127 Bologna Centralino 051 5271
		data on schooling	Direzione Generale Economia della conoscenza, del lavoro e dell'impresa Viale Aldo Moro, 44 40127 Bologna Assessorato coordinamento delle politiche europee allo sviluppo, scuola, formazione professionale, università, ricerca e lavoro Viale Aldo Moro, 38 40127 Bologna Servizio sistema informativo e informatico della Direzione Generale	
		waste management data	Regione Emilia-Romagna - Direzione Generale Cura del Territorio e dell'Ambiente Servizio Giuridico dell'Ambiente, rifiuti, bonifica siti contaminati e servizi pubblici ambientali	Viale della Fiera, 8 40127 Bologna tel. 051.527.6078 / 6003 / 6061
	flow of visitors/tourists	number of overnight stays; number of accesses to the sites of interest; number of accesses to the sites of interest; distribution of attendance; types of visitors; index of satisfaction and evaluation of services (number of sample surveys).	Regione Emilia-Romagna - Servizio Turismo e Commercio e Sport	viale Aldo Moro, 38 - Torre - 40127 Bologna tel. +39 (0)51 527 6433
			UNIONCAMERE Emilia-Romagna - Osservatorio del Turismo dell'Emilia-Romagna	Unioncamere Emilia-Romagna viale Aldo Moro, 62 - 40127 Bologna Tel +39 051 6377011
			Osservatorio Nazionale del Turismo Istituito da: ENIT - Agenzia Nazionale del Turismo e MiBACT - Ministero dei Beni e delle Attività Culturali e del Turismo	ENIT - Agenzia Nazionale del Turismo promozione@enit.it www.enit.it Via Marghera, 2, 00185 Roma Centralino ENIT: +39(0)649711 MiBACT - Ministero dei Beni e delle Attività Culturali e del Turismo Info@beniculturali.it www.beniculturali.it Via del Collegio Romano, 27, 00186 Roma Centralino MiBACT: +39(0)667231
			DestinazioniTuristiche (LR 4/2016) (DT Emilia; DT Bologna-Modena - Bologna Welcome; DT Romagna)	DT Emilia - Viale Martiri della Libertà, 15 - Parma;
			EdG Macroaree	
	sampling of rocks and fossils	number and outcome of controls by the competent bodies	Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
			Carabinieri Forestali	
	pressures from abandonment (development of vegetation and loss of physical	advancement of the forest	Regione Emilia-Romagna - Servizio Aree Protette, Foreste e Sviluppo della Montagna	Viale Aldo Moro 30, 40127 Bologna tel. +39 (0)51 527 6080
			Regione Emilia-Romagna - Servizio Statistica e Sistemi informativi geografici	Viale Aldo Moro, 52 40127 Bologna (BO) Tel. +39(0)51 527 3313

	monitoring database		frequency			monitoring level		
website	*open source (url)*	*reserved*	*occasional*	*periodic*	*continuous*	*regional*	*national*	*european*
https://ambiente.regione.emilia-romagna.it/it/suolo-bacino/argomenti/attivita-estrattive-e-minerarie	Esiste ma forse non è di pubblico accesso	Catasto Attività Estrattive Emilia-Romagna			X			
https://ambiente.regione.emilia-romagna.it/it/suolo-bacino/argomenti/attivita-estrattive-e-minerarie	Esiste ma forse non è di pubblico accesso	Catasto Attività Estrattive Emilia-Romagna			X			
https://www.istat.it/it/censimenti/popolazione-e-abitazioni	https://www.istat.it/it/dati-analisi-e-prodotti/banche-dati			X			X	
https://mobilita.regione.emilia-romagna.it/	https://mobilita.regione.emilia-romagna.it/news-archivio/2020/dicembre/mobilita-e-trasporti-la-regione-pubblica-il-rapporto-di-monitoraggio-2020			X		X		
https://scuola.regione.emilia-romagna.it/	https://scuola.regione.emilia-romagna.it/anagrafi-regionali/monitoraggio-sistema-scolastico			X				
https://ambiente.regione.emilia-romagna.it/it/rifiuti	https://ambiente.regione.emilia-romagna.it/it/rifiuti/documenti/prgr_2016/monitoraggio			X	nd	X		
https://imprese.regione.emilia-romagna.it/turismo/temi/osservatorio-regionale-sul-turismo	https://www.ucer.camcom.it/osservatori-regionali/os-turistico			X				
https://www.ucer.camcom.it/osservatori-regionali/os-turistico	https://www.ucer.camcom.it/osservatori-regionali/os-turistico			X		X		
http://www.ontit.it/opencms/opencms/ont/it/index.html	http://www.ontit.it/opencms/opencms/ont/it/stampa/in_evidenza/Panoramica_Turismo_in_Italia.html			X			X	
	https://it.readkong.com/page/destinazione-turistica-emilia-parma-piacenza-reggio-emilia-7630264			X				
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nn	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
		yes	nd	nd	nd		X	
https://ambiente.regione.emilia-romagna.it/it/parchi-natura2000/aree-protette/aree-protette-in-er/aree-protette-1	----------		nd	nd	nd			
https://geoportale.regione.emilia-romagna.it/	https://geoportale.regione.emilia-romagna.it/catalogo/dati-cartografici/pianificazione-e-catasto/uso-del-suolo			X		X		

6.1 Monitoring + Key indicators

themes	*focus*	*key indicators*	Institutions, agencies responsible for the monitoring	
			name	*address*
	of physical accessibility and perceptibility)	number of abandoned settlements	Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
		number of disused roads and tracks	Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
	development pressures	water pollution (surface and groundwater)	ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			Regione Emilia-Romagna - Servizio Tutela e Risanamento Acqua, Aria e Agenti Fisici	viale della Fiera, 8 40127 Bologna tel. 051 527 6980-6041 fax. 051-5276874 Ambpiani@regione.emilia-romagna.it
			Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
		soil pollution	ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			Regione Emilia-Romagna - Servizio Tutela e Risanamento Acqua, Aria e Agenti Fisici	viale della Fiera, 8 40127 Bologna tel. 051 527 6980-6041 fax. 051-5276874 Ambpiani@regione.emilia-romagna.it
			Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli	Viale della Fiera, 8 - 40127, Bologna Tel: +39(0)515274792
			Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
		atmospheric pollution	ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
		acidification of precipitation	ARPAE-SIM (Agenzia Regionale per la Prevenzione, l'Ambiente ed Energia - Servizio Idro-Meteo)	DIREZIONE GENERALE Via Po, 5 – 40139 Bologna centralino: 051 6223811
			Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200

	monitoring database		frequency			monitoring level		
website	*open source (url)*	*reserved*	*occasional*	*periodic*	*continuous*	*regional*	*national*	*european*
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
http://www.parcoappennino.it/		yes	nd	nd	n		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	n	X		
https://enteparchi.bo.it/		yes	nd	nd	n	X		
http://www.parchiromagna.it/		yes	nd	nd	n	X		
https://www.arpae.it/it/temi-ambientali/acqua	https://www.arpae.it/it/temi-ambientali/acqua/report-bollettini/acque-superficiali	yes		X		X		
	https://www.arpae.it/it/temi-ambientali/acqua/report-bollettini/acque-sotterranee	yes						
https://ambiente.regione.emilia-romagna.it/it/acque/servizio-tutela-risanamento-acqua	no			X				
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
https://www.arpae.it/it/temi-ambientali/suolo	https://webbook.arpae.it/suolo/	yes		X		X		
https://ambiente.regione.emilia-romagna.it/it/acque/servizio-tutela-risanamento-acqua	no			X				
https://ambiente.regione.emilia-romagna.it/it/geologia/suoli	https://ambiente.regione.emilia-romagna.it/it/geologia/suoli/uso-e-gestione-dei-suoli							
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
https://www.arpae.it/it/temi-ambientali/aria	https://www.arpae.it/it/temi-ambientali/aria/dati-qualita-aria	yes		X	X	X		
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
https://www.arpae.it/it/temi-ambientali/acqua/dati-acque/acque-superficiali/dati-acque-superficiali	https://www.arpae.it/it/temi-ambientali/acqua/dati-acque/acque-superficiali/rete-di-monitoraggio-acque-superficiali-fluviali/reti-di-monitoraggio-acque-superficiali	yes		X		X		
http://www.parcoappennino.it/		yes	nd	nd	nd		X	

6.1 Monitoring + Key indicators

themes	*focus*	*key indicators*	Institutions, agencies responsible for the monitoring	
			name	*address*
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
OTHER FACTORS	**education**	number of interventions in schools and among stakeholders; number of extracurricular educational projects:	Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200 educazioneambientale@parcoappennino.it
			EdG Macroarea Emilia Centrale	CEAS Parchi Emilia Centrale - Ufficio Educazione Ambientale Tel. 0536/72134 int. 6 - mobile 337/1486039 - E-mail: ceas@parchiemiliacentrale.it
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Prov. di Forlì-Cesena, P.zza Morgagni, 9 - 47121 Forlì Resp.: Dott. Fiorenzo Rossetti: fiorenzo.rossetti@regione.emilia-romagna.it - 0543/714313 - 338/2151442 www.parchiromagna.it - facebook.com/scuola.parchi.romagna
			ARPAE - Rete Regionale Educazione alla Sostenibilità (CEAS)	Centro Tematico Regionale - Educazione alla sostenibilità Agenzia Regionale Prevenzione Ambiente Energia (Arpae) Largo Caduti del Lavoro, 6 - 40122 Bologna. Tel. +39(0)51 528 1200
	cataloguing and production of scientific material	number of geological/geomorphological publications	Università di Modena e Reggio Emilia - Dipartimento di Scienze Chimiche e Geologiche	Sede di Modena Via Università 4, 41121 Modena, Tel. +39(0)59 205 6511
			Università di Bologna - Dipartimento di Scienze Biologiche, Geologiche ed Ambientali - BiGeA	Sede di Geologia Via Zamboni, 67 - Bologna Tel: +39(0)51 209 4520
			Federazione Speleologica Emilia-Romagna	c/o Casa Fantini, Via C. Jussi, 171 - Farneto 40068 S. Lazzaro di Savena (BO)
	communication	number of articles in specialist journals	Università di Modena e Reggio Emilia - Dipartimento di Scienze Chimiche e Geologiche	Sede di Modena Via Università 4, 41121 Modena, Tel. +39(0)59 205 6511
			Università di Bologna - Dipartimento di Scienze Biologiche, Geologiche ed Ambientali - BiGeA	Sede di Geologia Via Zamboni, 67 - Bologna Tel: +39(0)51 209 4520
			Federazione Speleologica Emilia-Romagna	prov. di Forlì-Cesena, P.zza Morgagni, 9 - 47121 Forlì Resp.: Dott. Fiorenzo Rossetti: fiorenzo.rossetti@regione.emilia-romagna.it - 0543/714313 - 338/2151442 www.parchiromagna.it - facebook.com/scuola.parchi.romagna
		number of film productions	Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404
		number of television reports	Parco Nazionale Appennino Tosco-Emiliano	Via Comunale, 23 54013 Sassalbo di Fivizzano (MS) Tel. +39(0)585 947 200
			EdG Macroarea Emilia Centrale	Viale Martiri della Libertà 34 – 41121 Modena. Tel. +39(0)59 209 311
			EdG Macroarea Emilia Orientale	Piazza XX Settembre, 1 - 40043 Marzabotto (BO) - Tel. +39(0)51 670 2811 - 625 4811
			EdG Macroarea Romagna	Via Aldo Moro 2 - 48025 Riolo Terme (RA) Tel. +39(0)546 77404

	monitoring database		frequency			monitoring level		
website	*open source (url)*	*reserved*	*occasional*	*periodic*	*continuous*	*regional*	*national*	*european*
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
www.parcoappennino.it/pagina.php?id=237			X				X	
http://www.parchiemiliacentrale.it/parco.sassi.roccamalatina/educazione-ambientale.php	http://www.parchiemiliacentrale.it/pagina.php?id=157		X			X		
https://enteparchi.bo.it/visite-guidate-e-educazione-ambientale/			X			X		
http://www.parchiromagna.it/pagina.php?id=10			X			X		
https://www.arpae.it/it/temi-ambientali/educazione_alla_sostenibilita	https://www.arpae.it/it/temi-ambientali/educazione_alla_sostenibilita/azioni-educative					X		
https://www.unimore.it/ateneo/DCG.html			X					X
https://bigea.unibo.it/it/index.html			X					X
http://fsrer.it/site/				X				X
https://www.unimore.it/ateneo/DCG.html			X					X
https://bigea.unibo.it/it/index.html			X					X
http://fsrer.it/site/	http://www.venadelgesso.it/fsrer.html			X				X
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		
http://www.parcoappennino.it/		yes	nd	nd	nd		X	
http://www.parchiemiliacentrale.it/		yes	nd	nd	nd	X		
https://enteparchi.bo.it/		yes	nd	nd	nd	X		
http://www.parchiromagna.it/		yes	nd	nd	nd	X		

8. MANAGEMENT EFFECTIVENESS ASSESSMENT

For the nominated serial property, a procedure for assessing management effectiveness is proposed to support decision-making processes that underlie management and planning choices.

This procedure considers management as a cyclic and adaptive process which consists of a sequence of concatenated steps: definition of objectives, assessment of issues, implementation of measures, monitoring of results, and clarification of actions. The proposed procedure involves six main steps and is in line with the adaptive management models recommended by the IUCN/WCPA and adapted to the property. It is based on the need to preserve the universal values of the property and on the consideration of the different types and intensities of use that characterise each of the component parts. It is inclusive and participatory and is designed to assess sustainable development in natural environments that are located nearby inhabited centres.

The procedure is divided into the following phases:

- classification of areas based on the type of planned activities and the intensity of compatible uses;
- definition of management and planning objectives based on the classification of areas;
- definition of some easily measurable indicators, selected on the basis of management and planning objectives;
- definition of quality and performance standards (understood as desirable conditions and as objectives to be achieved or maintained; the standards for each area and situation of use are identified with the involvement of stakeholders);
- definition of a programme for regular monitoring of the effects of management actions and measures;
- assessment and possible rescheduling of management actions based on the results of monitoring.

9. WORK-PLAN TO IMPLEMENT THE OMS

The development of the strategy follows a program divided into 5 phases. The first of which corresponds to the nomination preparing phase.

Step 1 (activity carried out)

Develop a draft overall management strategy

activity: Identify a possible governance system;
Identify the management approach;
Define the vision and the main axes of management;
Prepare a coordinated management plan;
Develop a work plan.

method: Multidisciplinary working group.

actors: Technical Scientific Working Group; sharing with project partners (Emilia-Romagna Region, Appennino Tosco-Emiliano National Park, Ministry of Ecological Transition).

Step 2

Improve management objectives and priorities

activity: Establish a set of objectives, to be shared by project partners and set priorities;
Verify the coherence of the objectives with the management policies of the partners;
Verify the possibility of achieving the objectives in the short, medium and long term.

method: Multidisciplinary working group.

actors: to be defined (experts and officers of administrations and parks authorities).

Step 3

Develop a participatory process of stakeholder engagment

activity: Identify the main categories of stakeholders to be involved in the forming process of the management strategy (key stakeholders, institutional stakeholders, operating stakeholders, and supporters);
Define, integrate and develop management actions;
Identify priority actions.

method: development of a participatory process on the basis of the main international standards applied to the needs of the World Heritage and the Operational Guidelines, to identify actions and possible implementers. The participatory process may use various engagement techniques in relation to different issues and different categories of stakeholders (e.g. multistakeholder workshops, partnerships on critical areas, dedicated listening lines, interviews and online consultations, focus groups, etc.).

actors: to be defined.

Step 4

Definition of a shared action plan

activity: Analyse of the results of the participatory process;
Improve actions;
Define priorities;
Identify implementation measures (e.g. legislative, financial, contractuals, etc.).

method: Multidisciplinary working group.

actors: to be defined (experts and officers of administrations and parks authorities).

Step 5

Strategy finalization

activity: Define agreements to harmonize existing management systems for the preservation of the universal values of the property, consistent with the nomination vision;
Define agreements on priorities for the management and enhancement of the nominated property in implementation of the vision;
Develop common monitoring protocols (identification of a limited number of indicators to be monitored periodically);
Develop a plan for sustainable financing of the serial property;
Develop a system of evaluation of management effectiveness (based on the LAC model: performance indicators / quality standards).

method: Multidisciplinary working group.

actors: to be defined (experts and officers of administrations and parks authorities).

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IUCN (2008). Management Planning for Natural World Heritage Properties. A Resource Manual for Practitioners. IUCN, Gland, Switzerland.

UNESCO (2008). World Heritage Papers No. 23: Enhancing our Heritage Toolkit. Assessing management effectiveness of natural World Heritage sites. UNESCO, World Heritage Centre, Paris, France.

UNESCO / Shell Foundation (2008). Business Planning for Natural World Heritage Sites – A Toolkit . UNESCO, World Heritage Centre, Paris, France.

IUCN (2008). Evaluating Effectiveness. A framework for assessing management effectiveness of protected areas, 2nd Edition. IUCN, Gland, Switzerland.

IUCN (2006). Sustainable Financing of Protected Areas. A global review of challenges and options. IUCN, Gland, Switzerland.

PROTECTIVE DESIGNATION

All the component sites of the nominated serial property possess a strong legal protection framework.

It consists of a coherent system of measures that link different levels of legislation (European, national, and local) protecting epigean and hypogeal geological attributes of the candidate property and their natural habitats.

The overlapping levels of protection, which affect all the component sites of the nominated property, is a characteristic of the Italian - and European Union – context, where protected areas no longer generally coincide with wild, remote or virtually uninhabited areas of the Earth as elsewhere.

It stems from the will to increasingly strengthen the protection of natural ecosystems, commonly adjacent to areas where human presence is historicised and represents an integral part of the natural landscape.

In the case of the nominated property, the history of natural heritage protection began in the 1970s, with the establishment of the first parks and nature reserves, and continued with the constant refinement of protection up to the present day.

In particular, based on a law reforming the protected areas system, the protection structure has been further strengthened thanks to the transformation of some regional parks into national parks and the establishment of Natura 2000 sites on – but also outside - existing regional protected areas.

Protective status – core zone (entire serial property)

The great majority of the nominated Property core areas, 3,548 hectares (96.4%), is protected by European Community directives and corresponds to karst and gypsum habitats belonging to the European Natura 2000 network (IUCN Protection Category IV). The remaining part, 131 hectares (3.4%), is protected by law as Protected Landscape (IUCN Protection Category V) or are registered as Geosite of regional importance (IUCN Protection Category III).

The update of the General Measures of Conservation of Natura 2000 sites in 2018 (Resolution of the Regional Council of Emilia-Romagna No. 1147 of July 16, 2018) is the most recent protective measure which concerns the nominated property and overlaps with - but does not replace - earlier protective legislation, national and regional. In particular, the zones protected by the European directives include five areas - all previously established - which protect epigean and hypogean evaporitic karst environments both for environmental and landscape-cultural aspects. These five protected areas cover 2,597 hectares (71% of the nominated property). They are the Appennino Tosco-Emiliano National Park, established in 2001 (IUCN Cat. II), the Gessi Bolognesi and Calanchi dell'Abbadessa Regional Park, established in 1988, the Vena del Gesso Romagnola Regional Park, established in 2005, the Onferno Regional Reserve established in 1991 (all of them are IUCN Cat. IV), and the Collina Reggiana Protected Landscape, established in 2011 (IUCN Cat. V).

The entire subsurface area of the nominated property is registered thank to the law L.R. no. 9/2006 "Regulations for the conservation and enhancement of the geodiversity of Emilia-Romagna" as geological sites of regional importance (IUCN Protection Category III) and protected accordingly to the Parks Management Plans. Under this law, an inventory of geological sites, which includes caves, artificial cavities, and karst areas, has been established. Each geological site is mapped and illustrated by a descriptive sheet, which provides information on the protection measures.

Altogether, these protection measures form a consolidated system of environmental protection that has proven its effectiveness over time.

Protective status - buffer zone (entire serial property)

The buffer areas of each component site, being included entirely within the perimeters of the protected areas, also present the characteristic coexistence of several levels of protection, although in different proportions compared to the core areas.

The great majority of the buffer zone of the nominated property, 6,207 hectares (74.7% of the entire buffer zone), is protected by European Community directives and belongs to the European Natura 2000 network (IUCN Protection Category IV). The remaining part, 42 hectares (0.5%), is protected by law as national park (IUCN Protection Category II) or as regional protected area, 2,065 hectares (24.8%) (IUCN Protection Category IV and V).

For the detailed inventory of the protective designations see the synoptic table on page 46.

EXISTING PLANNING

The Regional Landscape Territorial Plan (PTPR), represents the reference planning tool for the verification of the current landscape-environmental protections. The PTPR of the Emilia -Romagna Region, approved by Regional Council in 1993 is a territorial plan focused on the landscape and the environmental values.

The regional plan is implemented through regional, intra-regional and sub-regional planning tools, which have specified and deepened the contents and provisions of the PTPR. Specifically, these implementation tools are provincial (Provincial Coordinating Territorial Plan, known as PTCP), metropolitan (Metropolitan Territorial Plan) and municipal (General Town Plan, known as PRG; Municipal Structural Plan, known as PSC, etc.).

The regional, provincial and municipal planning tools, according to their level of competence, represent the single protection reference on the regional policies for the territorial development programs. The control and supervision of the application of compliance with landscape protection regulations is under the responsibility of the Region, the Province and the Municipalities (Municipality, Association of Municipalities, Union of Municipalities, etc.) according to the planning level concerned in the territory.

The detailed inventory of the current planning is reported in the synoptic table (see pp. 48-57), which shows for each component site the planning instruments, the measures, the year of approval.

MAP OF EUROPEAN PROTECTION OF THE NOMINATED SERIAL PROPERTY

Projected Coordinate System: WGS 84 Fuse 32N

Data sources: EU-DEM v.1.1 (GMES / Copernicus), CTR50K (Emilia-Romagna Region)

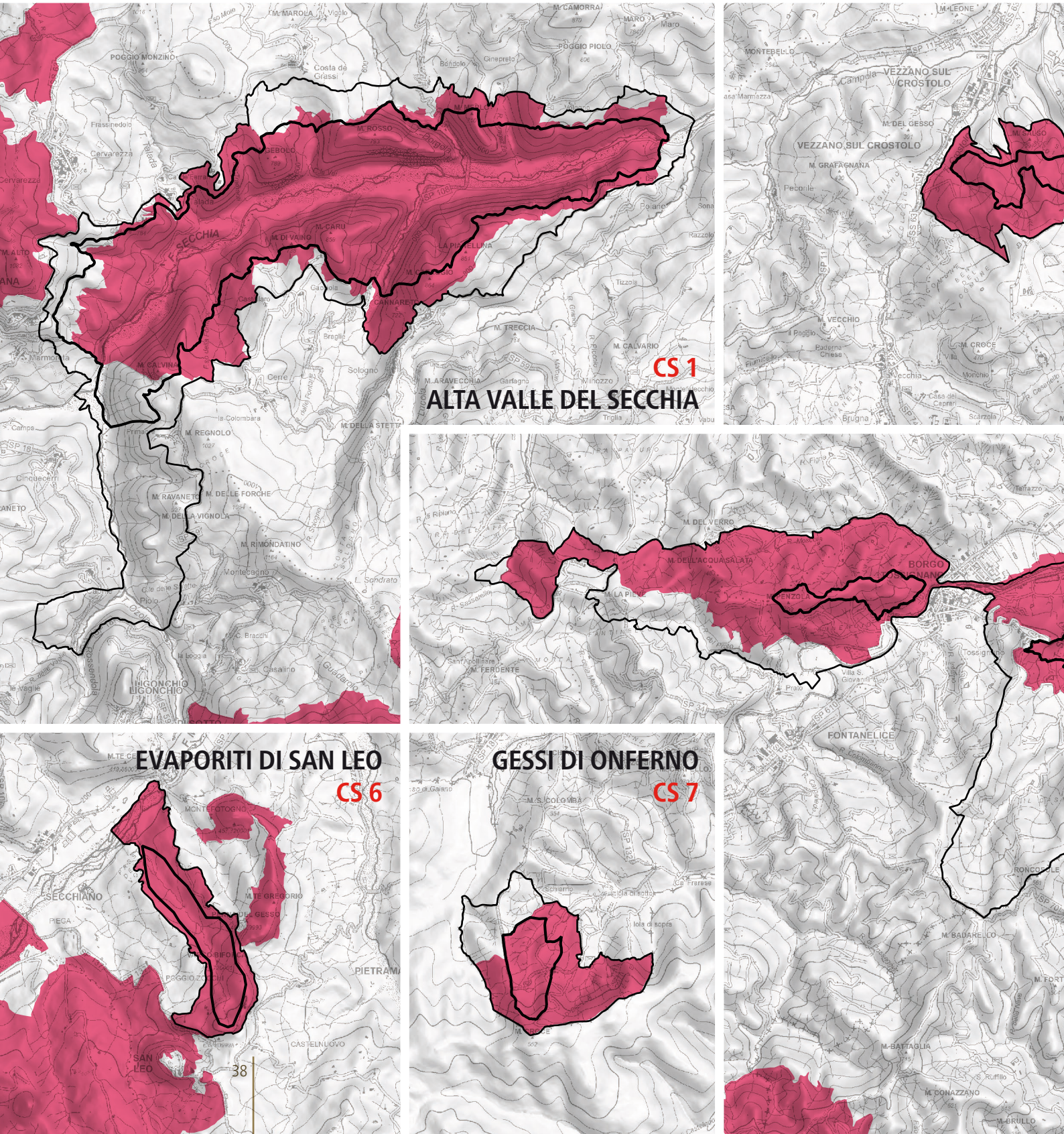
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buffer zone

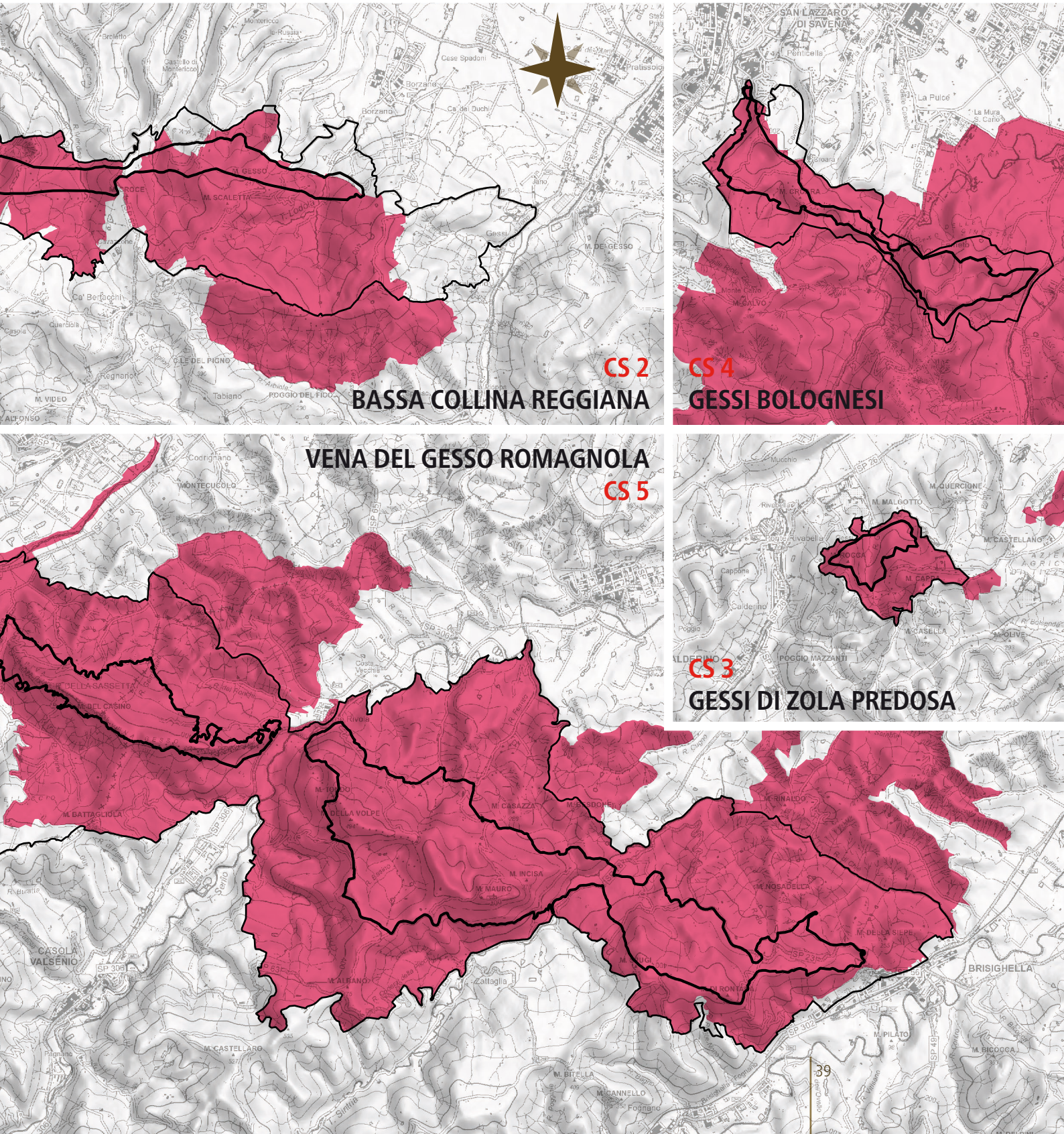
core zone

0 1 2 km

0 1 2 mi



European protection



MAP OF NATIONAL PROTECTION OF THE NOMINATED SERIAL PROPERTY

Projected Coordinate System: WGS 84 Fuse 32N

Data sources: EU-DEM v.1.1 (GMES / Copernicus), CTR50K (Emilia-Romagna Region)

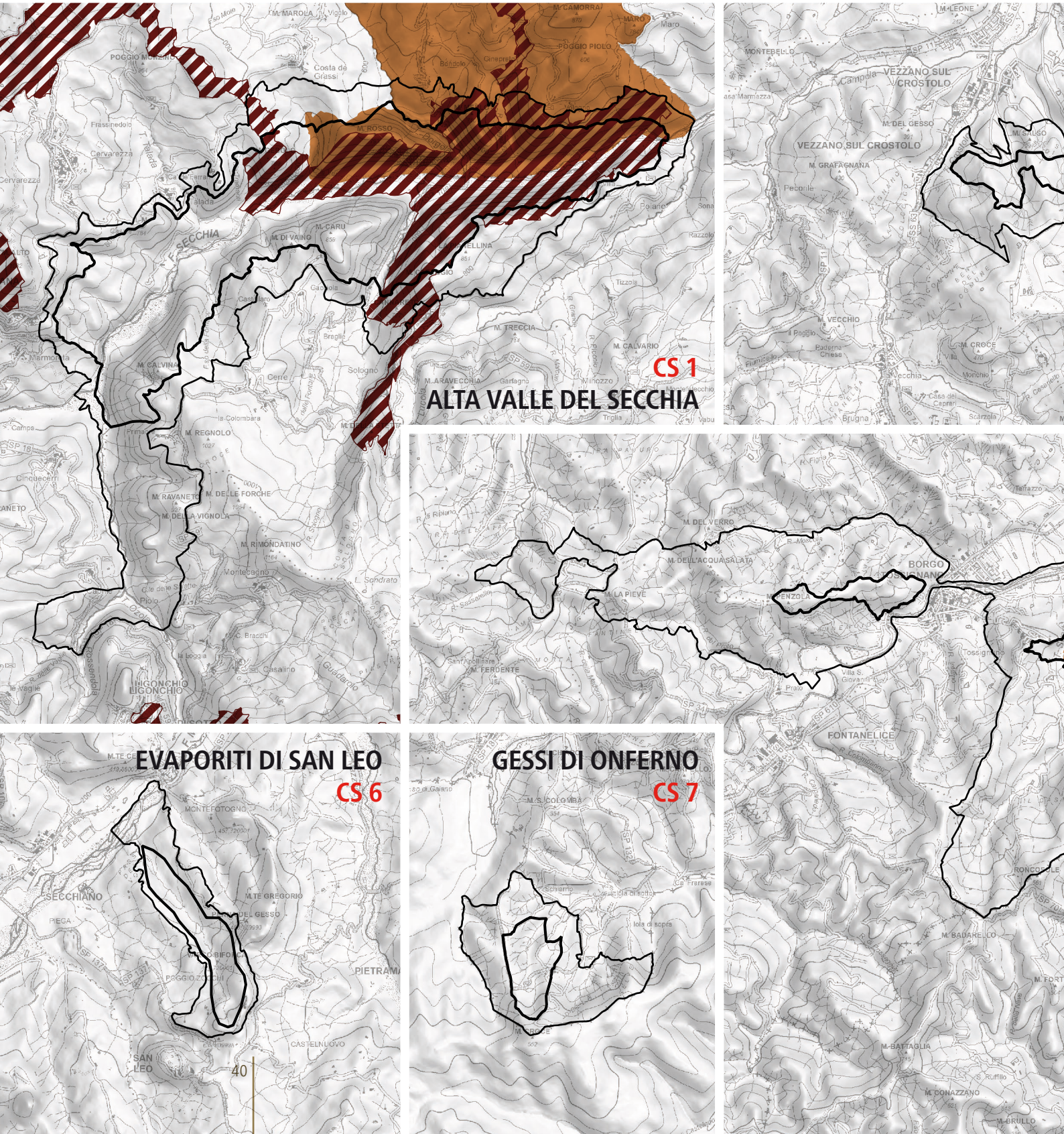
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buffer zone

core zone

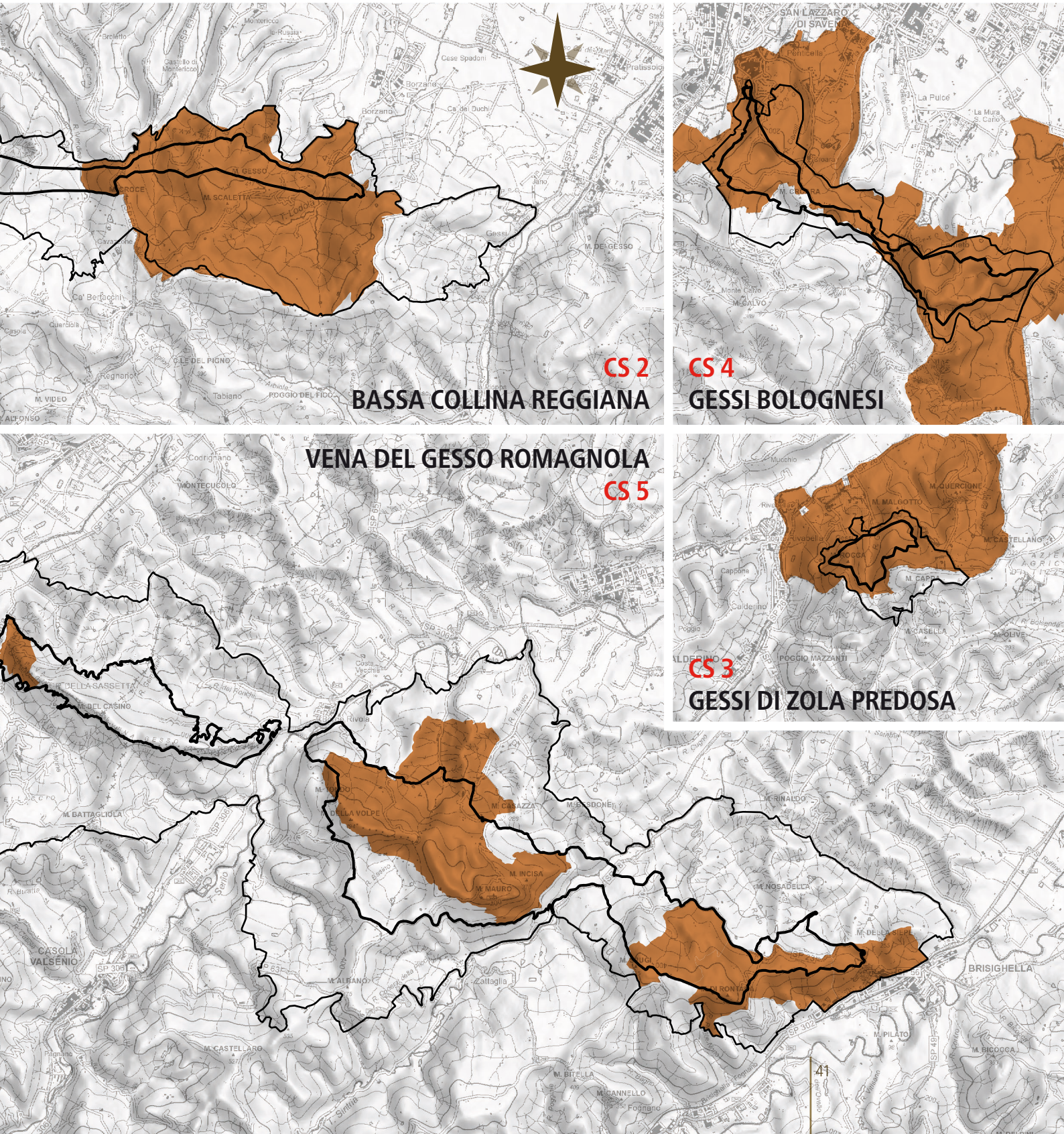
0 1 2 km

0 1 2 mi



National Park

Art. 136 comma c, D.Lgs 42/2004



MAP OF REGIONAL PROTECTION OF THE NOMINATED SERIAL PROPERTY

Projected Coordinate System: WGS 84 Fuse 32N

Data sources: EU-DEM v.1.1 (GMES / Copernicus), CTR50K (Emilia-Romagna Region)

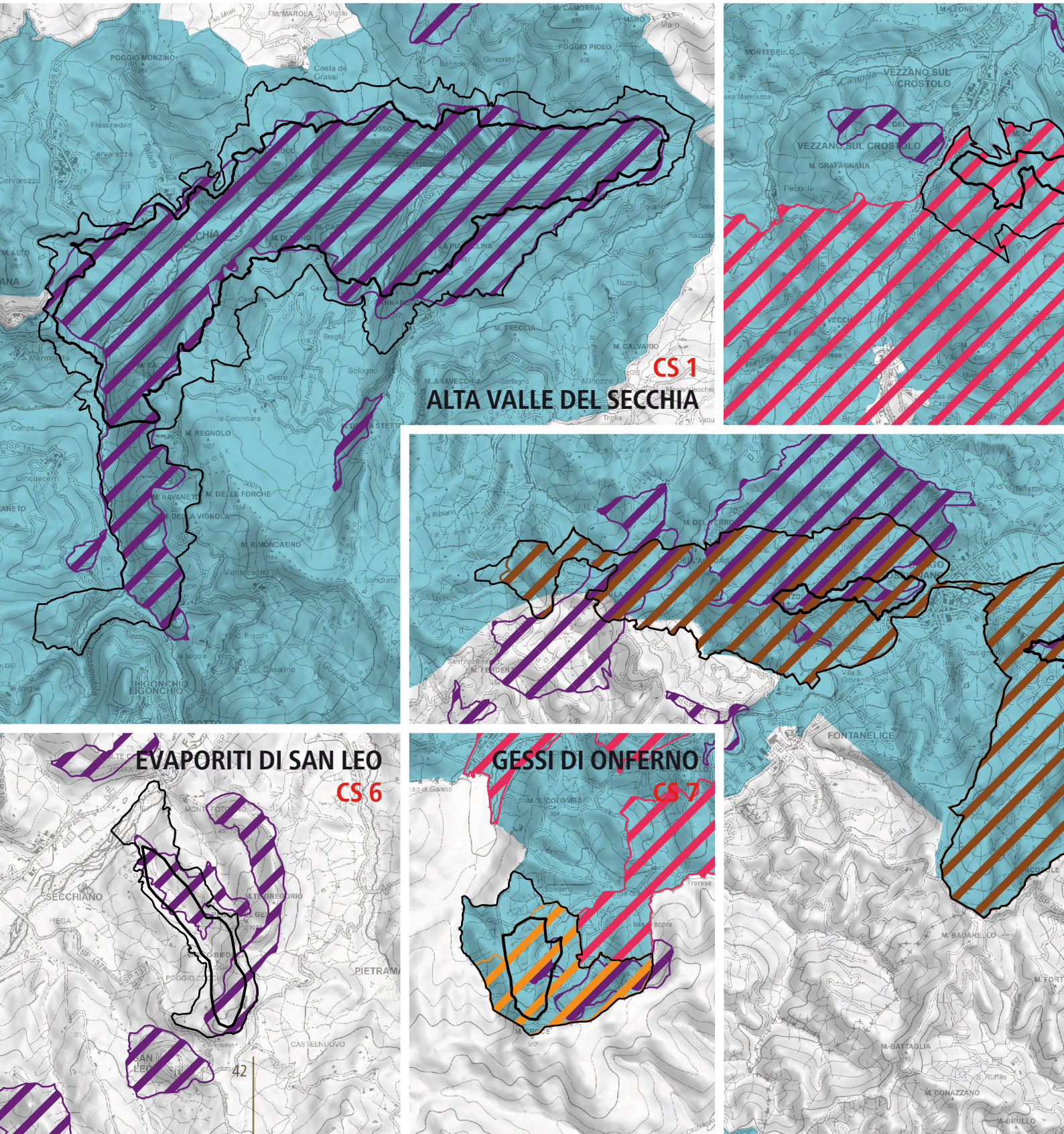
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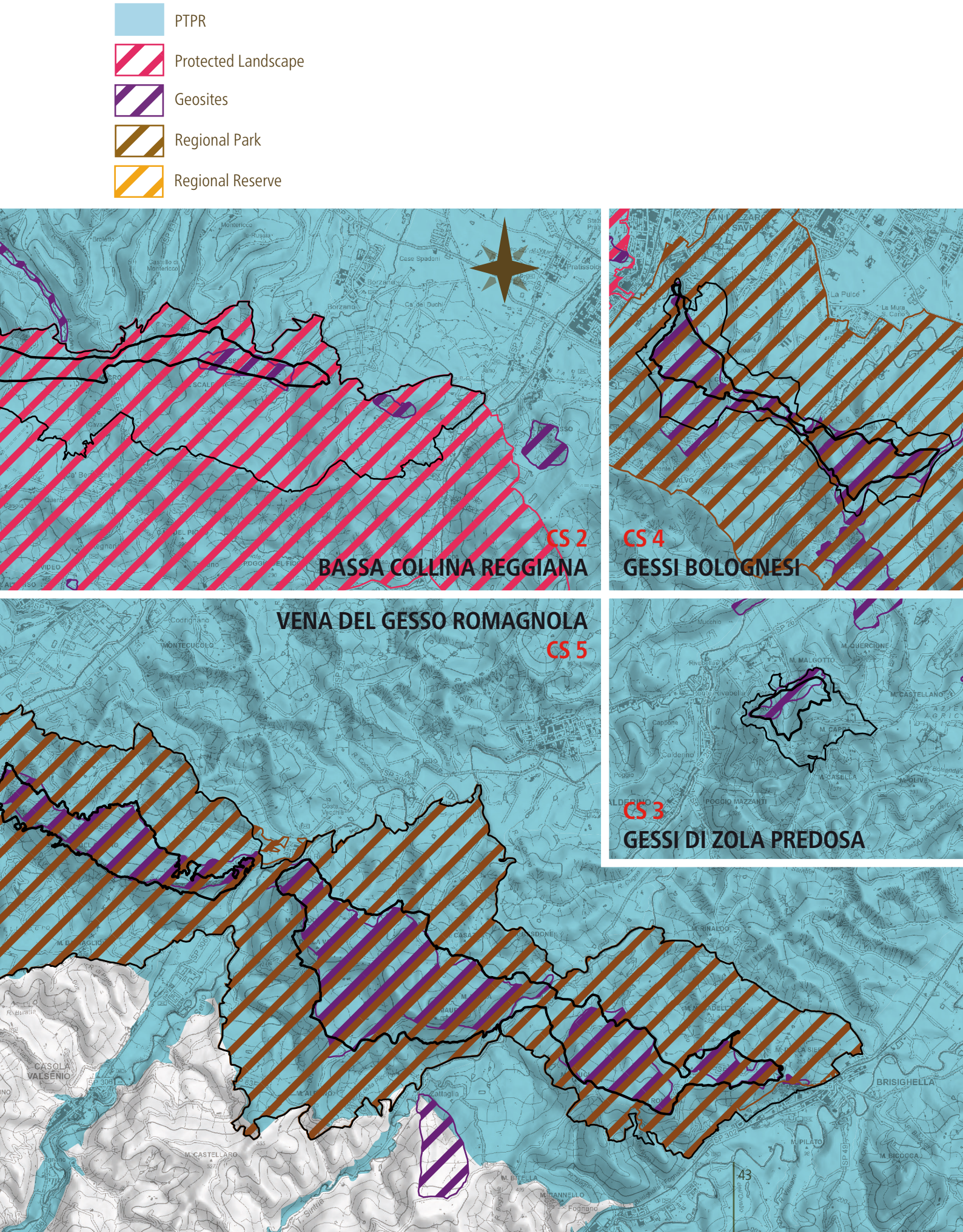
buffer zone

core zone

0 1 2 km

0 1 2 mi


CS 1
ALTA VALLE DEL SECCHIA
EVAPORITI DI SAN LEO
CS 6
GESSI DI ONFERNO
CS 7
VEZZANO SUL CROSTOLO
FONTANELICE
SECCHIANO
PIETRAMALA
CASTELNUOVO
M. REGNOLO
M. RIMONDATINO
M. TRECCIA
M. CALVARIO
M. RAVANETO
M. DELLE FORCHE
M. GRAFAGNANA
M. BADARELLO
M. BATTAGLIA
M. CONAZZANO
M. S. COLOMBA
POGGIO MONZINO
POGGIO PIOLO
MONTEBELLO
Cervarezza
Frassinedolo
Costa de Grassi
Ginepreto
Bondolo
Polaro
Razzolo
Tizzola
Cerre
Sologno
Garfagno
Minozzo
Triglia
Pecorile
Campola
Marmazza
Casalino
Guadarnolo
Monteagano
Sant'Apollinare
Tossignano
Villa S. Giovanni
Schiarino
Frarese
Sola di sopra
Sola di sotto
Pieca
Poggio Bifoli
Monte Gregorio
Monte Fotti
Monte Fiorito
Monte Ventasso
Monte Cusna
Monte Alto
Monte Marola
Monte Camorra
Monte Maro
Monte Leone
Monte Ruffillo
Monte Brullo
Monte Forte
Monte Ravanetto
Monte della Vignola
Monte Bracchi
Monte Loggia
Monte Sondrato
Monte Tassi
Monte Ferdeni
Monte Terrazzo
Monte Prato


PTPR
Protected Landscape
Geosites
Regional Park
Regional Reserve
CS 2
BASSA COLLINA REGGIANA
CS 4
GESSI BOLOGNESI
VENA DEL GESSO ROMAGNOLA
CS 5
CS 3
GESSI DI ZOLA PREDOSA

MAP OF IUCN PROTECTION CATEGORIES OF THE NOMINATED SERIAL PROPERTY

Projected Coordinate System: WGS 84 Fuse 32N

Data sources: EU-DEM v.1.1 (GMES / Copernicus), CTR50K (Emilia-Romagna Region)

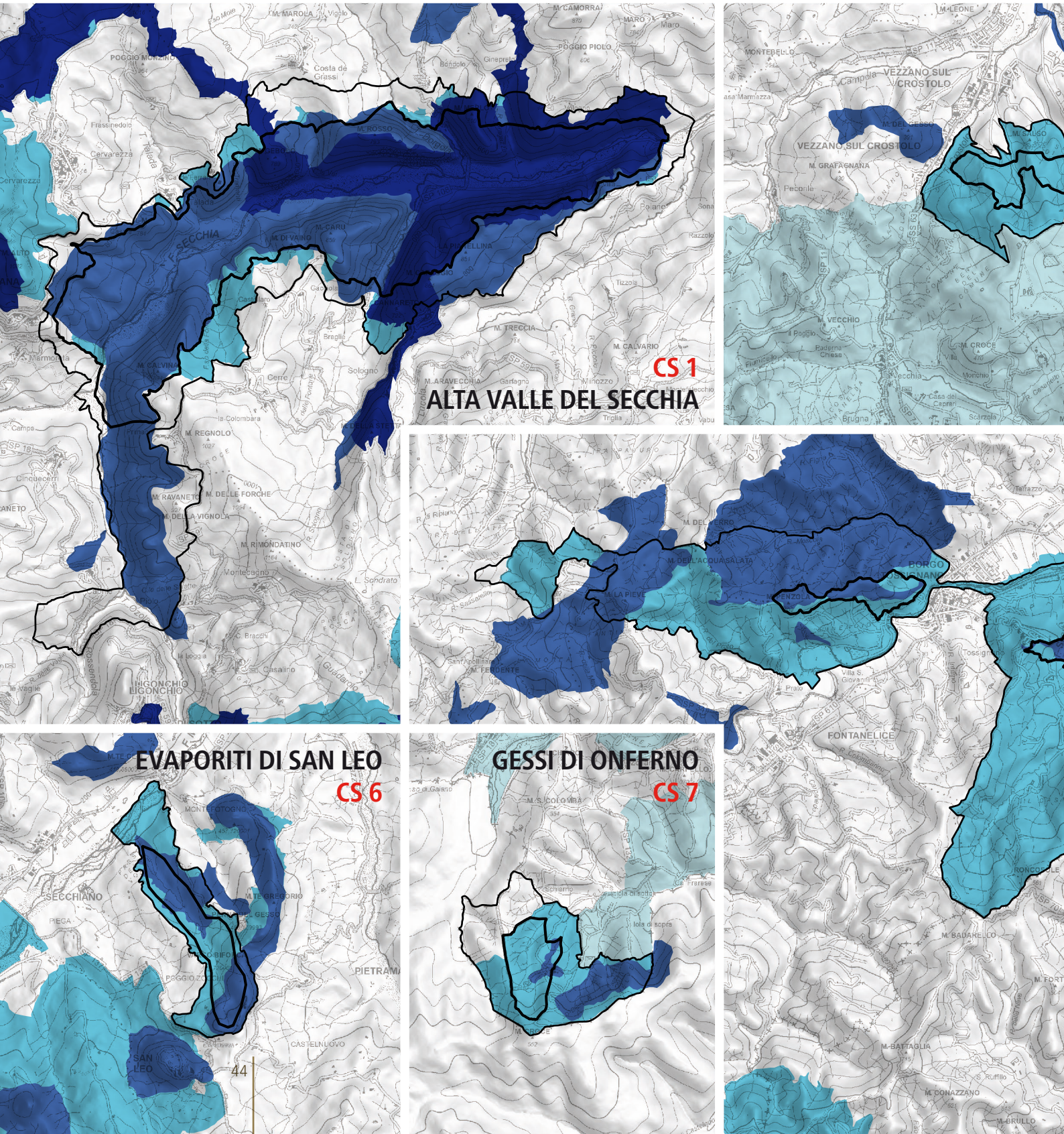
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buffer zone

core zone

0 1 2 km

0 1 2 mi

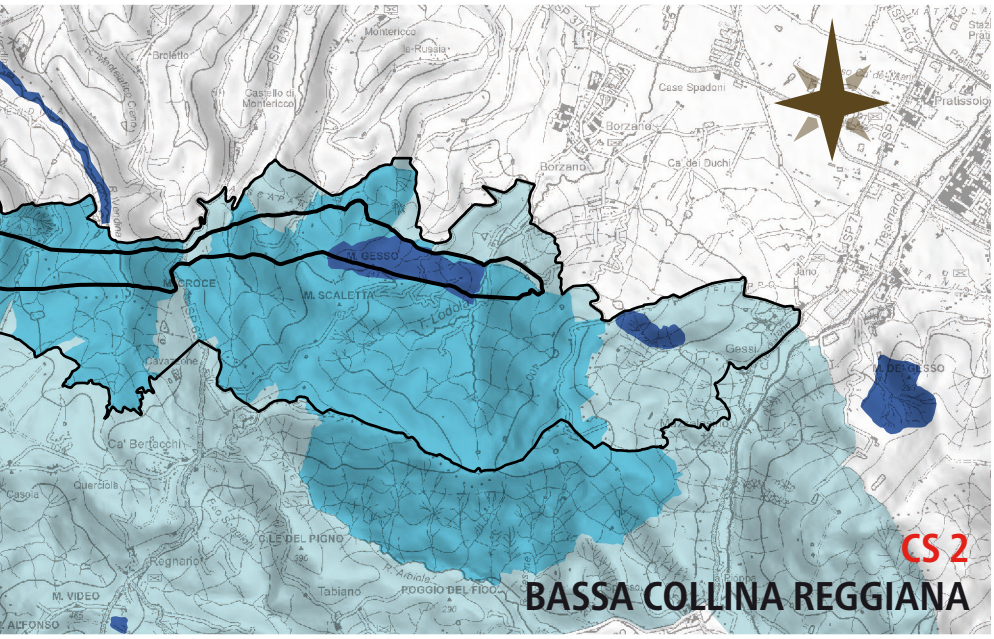


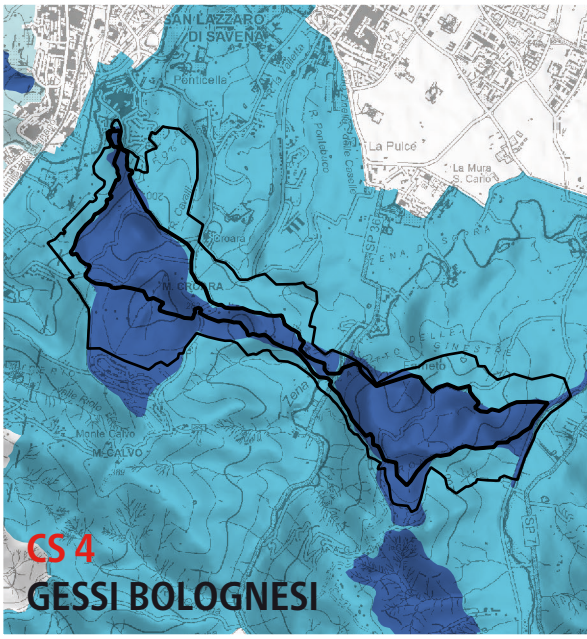
IUCN Cat. IIb

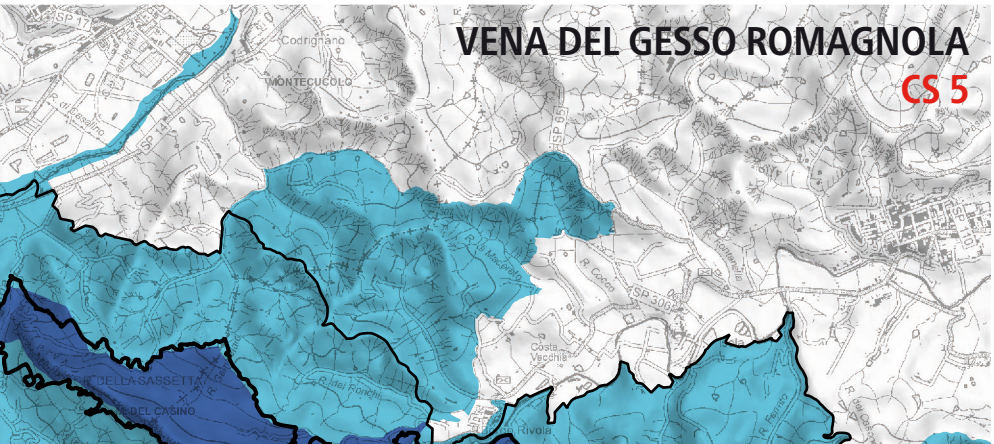
IUCN Cat. III

IUCN Cat. IV

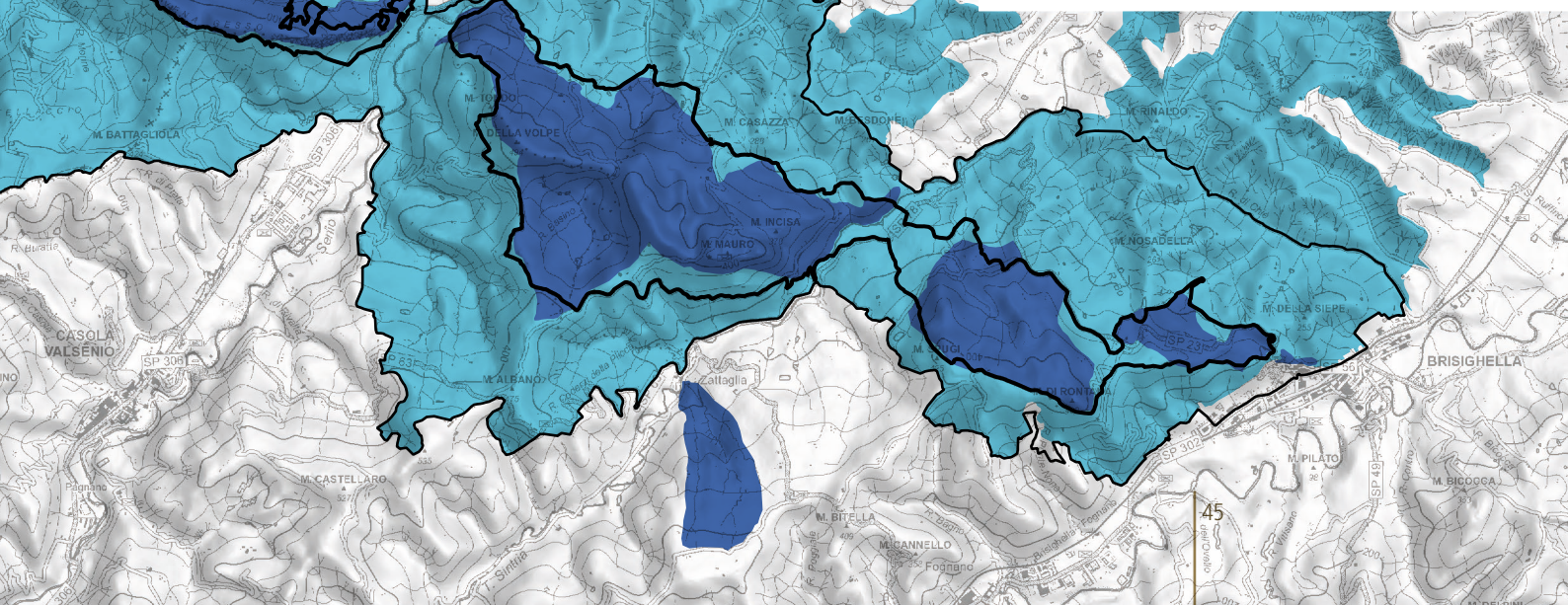
IUCN Cat. V











5 Protective designation

n	component site	*management agency/authority*	protective status *protective designation*
1	**Alta Valle Secchia**	Appennino Tosco-Emiliano National Park	Parco nazionale Appennino Tosco-Emiliano
		Appennino Tosco-Emiliano National Park	Parco nazionale Appennino Tosco-Emiliano (ampliamento perimetrazione)
		Appennino Tosco-Emiliano National Park	IT4030009 ZSC GESSI TRIASSICI
		Appennino Tosco-Emiliano National Park	IT4030009 ZSC GESSI TRIASSICI
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Dichiarazione di notevole interesse pubblico della Pietra di Bismantova e dei Gessi Triassici, siti nel comune di Castelnovo ne' Monti (RE)
2	**Bassa Collina Reggiana**	Management Authority for Parks and Biodiversity - Emilia centrale	Paesaggio naturale e seminaturale protetto collina reggiana
		Management Authority for Parks and Biodiversity - Emilia centrale	IT4030017 ZSC CA' DEL VENTO, CA' DEL LUPO, GESSI DI BORZANO
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Provvedimento di Vincolo Paesaggistico - Dichiarazione di notevole interesse pubblico dell'area di Borzano - Le Croci sita nei Comuni di Albinea e Viano
3	**Gessi di Zola Predosa**	Emilia-Romagna Regional Administration	IT4050027 ZSC GESSI DI MONTE ROCCA, MONTE CAPRA E TIZZANO
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Dichiarazione di notevole interesse pubblico di una zona in Comune di Zola Predosa
4	**Gessi Bolognesi**	Management Authority for Parks and Biodiversity - Emilia orientale	Parco regionale Gessi Bolognesi e Calanchi dell'Abbadessa
		Management Authority for Parks and Biodiversity - Emilia orientale	IT4050001 ZSC-ZPS GESSI BOLOGNESI, CALANCHI DELL'ABBADESSA
			Commissione Provinciale di Bologna - Bellezze Naturali di Bologna (verb. 4 Dicembre 1961)
			Richiesta allargamento area della voce precedente
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Dichiarazione di notevole interesse pubblico della località "Croara" nel Comune di San Lazzaro di Savena
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Dichiarazione di notevole interesse pubblico della zona di Castel De Britti nel Comune di San Lazzaro di Savena
5	**Vena del Gesso Romagnola**	Management Authority for Parks and Biodiversity - Romagna	Parco Regionale Vena del Gesso Romagnola
		Management Authority for Parks and Biodiversity - Romagna	IT4070011 ZSC-ZPS VENA DEL GESSO ROMAGNOLA
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Dichiarazione di notevole interesse pubblico della zona "Vena del Gesso" sita nel Comune di Borgo Tossignano
		Emilia-Romagna Regional Administration- MIC, Segretariato regionale per l'Emilia-Romagna	Dichiarazione di notevole interesse pubblico della zona "Vena del Gesso" sita nei Comuni di Riolo Terme, Casola Valsenio e Brisighella
		MIC, Segretariato regionale per l'Emilia-Romagna	Abitato e sepolcreto di età eneolotica (Riolo Terme)
		MIC, Segretariato regionale per l'Emilia-Romagna	Rinvenimenti dal Neolitico all'epoca romana (la Tanaccia, Brisighella)
		MIC, Segretariato regionale per l'Emilia-Romagna	Centro di culto per il culto delle fonti all'interno della Grotta del Re Tiberio, attivo dall'età del Bronzo fino a tutta l'età romana
6	**Evaporiti San Leo**	Emilia-Romagna Regional Administration	IT4090003 ZSC-ZPS RUPI E GESSI DELLA VALMARECCHIA
7	**Gessi di Onfernoe**	Management Authority for Parks and Biodiversity - Romagna	IT4090001 ZSC ONFERNO

protective status		% area	
protection level (international, european, national, regional, or local)	*act / date of institution*	*core zone*	*buffer zone*
national	DECRETO DEL PRESIDENTE DELLA REPUBBLICA 21 maggio 2001 Istituzione del Parco nazionale dell'Appennino toscoemiliano.	43	14
national	D.P.R. del 2 agosto 2010		
european	Deliberazione Giunta Regionale 167 13/02/2008	86	47
national	Decreto ministeriale del 29/11/2019 “Designazione di diciassette Zone speciali di conservazione insistenti nel territorio della regione biogeografica continentale della Emilia-Romagna Regional Administration		
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 Deliberazione Giunta Regionale 258 29/02/2016		
regional	Deliberazione del Consiglio Provinciale di Reggio Emilia n. 111 del 23/06/2011	100	100
european	Deliberazione Giunta Regionale 512/2009 e Ministero dell'Ambiente e della Tutela del Territorio e del Mare D.M. 13 marzo 2019	94	73
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 D.M. 1 agosto 1985	54,9	52,3
european	04/2006 Deliberazione Giunta Regionale 167 13/02/2006	100	92
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 DM 3 marzo 1976		
regional	Legge regionale 2 aprile 1988, n. 11	100	100
european	06/1995 Deliberazione Giunta Regionale 512/2009	100	85
national	D.M.25/10/1965 (G.U. 01/12/1965 n°300) Legge 1497/1939		
national	D.M.03/03/1976 (G.U. 21/04/1976 n°104)		
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 DM 25 ottobre 1965		
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 DM 3 marzo 1976		
regional	Legge regionale 21 febbraio 2005, n.10	100	100
european	Deliberazione Giunta Regionale 512/2009	100	78
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 DM 1 agosto 1985		
national	L.1437/1939 art. 136 del D.Lgs. 42/2004 DM 30 luglio 1974 / DM 12 dicembre 1975		
national	art. 10 del D.Lgs. 42/2004 D.M. 28/05/1991 / L.1089/1939		
national	art. 10 del D.Lgs. 42/2004 D.M. 15/10/1985 / L.1089/1939		
national	art. 10 del D.Lgs. 42/2004 D.M. 09/07/1951 L.1089/1939		
european	Deliberazione Giunta Regionale 145/2010	100	100
european	Deliberazione Giunta Regionale 167 13/02/2006	100	70

5 d Regional/municipal plans

		regional or municipal or park authority	*plan type (territorial plan / urban plan)*
1	**Alta Valle Secchia**	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 17 (Zone di tutela dei caratteri ambientali di laghi, bacini e corsi d'acqua), Art. 18 (Invasi ed alvei di laghi, bacini e corsi d'acqua), Art. 19 (Zone di particolare interesse paesaggistico ambientale); Art. 25 (Zone di tutela naturalistica);
		Provincia di Reggio Emilia	Piano Territorale di Coordinamento Provinciale Art. 40 (Zone di tutela dei caratteri ambientali di laghi, invasi e corsi d'acqua); Art. 41 (Invasi ed alvei di laghi, bacini e corsi d'acqua); Art. 42 (Zone di particolare interesse paesaggistico ambientale; Art. 44 (Zone di tutela naturalistica).
		Unione dei Comuni Appennino Reggiano	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)
		Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge); Art. 136 (Immobili ed Aree di Notevole Interesse Pubblico).
		Appennino Tosco-Emiliano National Park	Piano del Appennino Tosco-Emiliano National Park
		Appennino Tosco-Emiliano National Park	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC IT4030009 (GESSI TRIASSICI)
		Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
		Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
		Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.
2	**Bassa Collina Reggiana**	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 18 (Invasi ed alvei di laghi, bacini e corsi d'acqua), Art. 21_b1 (Aree accerata e rilevante consistenza archeologica); Art. 25 (Zone di tutela naturalistica); Art. 28 (Zone di tutela dei corpi idrici superficiali e sotterranei).
		Provincia di Reggio Emilia	Piano Territoriale di Coordinamento Provinciale Art. 41 (Invasi ed alvei di laghi, bacini e corsi d'acqua); Art. 42 (Zone di particolare interesse paesaggistico ambientale); Art. 44 (Zone di tutela naturalistica); Art. 45 (Zone di tutela agronaturalistica); Art. 47 (Zone ed elementi di interesse storico-archeologico); Art. 82 (Zone di protezione delle acque sotterranee nel territorio di pedecollina - pianura).
		Unione Colline Matildiche	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)

application level (national, regional, or local)	*approval date or last revision*	*plan term*	*next planned revision*	*core zone*	*buffer zone*
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	100	100
Provincial	Delibera del Consiglio provinciale n. 124 del 17/06/2010			100	100
National	30/12/1923	No terms	No planned revision	85	90
National	24/02/2004	No terms	No planned revision	90	90
National/Local				43	14
European	DGR 167 - 13/02/2006	No terms	No planned revision	90	35
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	0	0
National	DPCM 27/10/2016	Periodico	2022	90	30
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	20	5
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	50	50
Provincial	Delibera del Consiglio provinciale n. 124 del 17/06/2010			50	50
National	30/12/1923	No terms	No planned revision		

5 d Regional/municipal plans

		regional or municipal or park authority	*plan type (territorial plan / urban plan)*
		Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge); Art. 136 (Immobili ed Aree di Notevole Interesse Pubblico).
		Ente di Gestione Macroarea Emilia Centrale	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC IT4030017 (CA' DEL VENTO, CA' DEL LUPO, GESSI DI BORZANO)
		Ente di Gestione Macroarea Emilia Centrale	Paesaggio naturale e seminaturale protetto - Collina reggiana - Terre di Matilde
		Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
		Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
		Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.
3	**Gessi di Zola Predosa**	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 19 (Zone di particolare interesse paesaggistico ambientale), Art. 25 (Zone di tutela naturalistica); Art. 28 (Zone di tutela dei corpi idrici superficiali e sotterranei).
		Città Metropolitana di Bologna	Piano Territoriale Metropolitano Art. 7.3 (Zone di particolare interesse paesaggistico ambientale); Art. 7.5 (Zone di tutela naturalistica); Art. 5.2 (aree sottoposte a particolare tutela).
		Unione Valli del Reno, Lavino e Samoggia	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)
		Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge); Art. 136 (Immobili ed Aree di Notevole Interesse Pubblico).
		Ente di Gestione Macroarea Emilia Orientale	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC IT4050027 (GESSI DI MONTE ROCCA, MONTE CAPRA E TIZZANO)
		Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
		Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
		Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.

application level (national, regional, or local)	*approval date or last revision*	*plan term*	*next planned revision*	*core zone*	*buffer zone*
National	24/02/2004	No terms	No planned revision	90	70
European	DGR 512 - 20/04/2009	No terms	No planned revision	92	70
Regional	DGR 845 - 13/07/2020	No terms	No planned revision	100	100
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	30	30
National	DPCM 27/10/2016	Periodico	2022	95	10
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	0	0
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	100	100
Provincial	Delibera del Consiglio metropolitano n°16 del 12/05/2021			100	100
National	30/12/1923	No terms	No planned revision	100	100
National	24/02/2004	No terms	No planned revision	100	95
European	DGR 167 - 13/02/2006	No terms	No planned revision	100	100
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	20	20
National	DPCM 27/10/2016	Periodico	2022	90	90
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	0	0

5 d Regional/municipal plans

		regional or municipal or park authority	*plan type (territorial plan / urban plan)*
4	**Gessi Bolognesi**	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 17 (Zone di tutela dei caratteri ambientali di laghi, bacini e corsi d'acqua), Art. 18 (Invasi ed alvei di laghi, bacini e corsi d'acqua), Art. 19 (Zone di particolare interesse paesaggistico ambientale), Art. 21_b1 (Aree accerata e rilevante consistenza archeologica); Art. 25 (Zone di tutela naturalistica); Art. 28 (Zone di tutela dei corpi idrici superficiali e sotterranei).
		Città Metropolitana di Bologna	Piano Territoriale Metropolitano Art. 4.2 (alvei attivi e invasi dei bacini idrici); Art. 4.3 (Fasce di tutela fluviale); Art. 7.3 (Zone di particolare interesse paesaggistico ambientale); Art. 8.2 (Zone ed elementi di interesse storico-archeologico); Art. 7.5 (Zone di tutela naturalistica); Art. 5.2 (aree sottoposte a particolare tutela).
		Unione dei Comuni Vallli Savena e Idice	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)
		Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge); Art. 136 (Immobili ed Aree di Notevole Interesse Pubblico).
		Ente di Gestione Macroarea Emilia Orientale	Piano Territoriale Parco Gessi bolognesi e Calanchi dell'Abbadessa
		Ente di Gestione Macroarea Emilia Orientale	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC-ZPS IT4050001 (GESSI BOLOGNESI, CALANCHI DELL'ABBADESSA)
		Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
		Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
		Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.
5	**Vena del Gesso Romagnola**	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 17 (Zone di tutela dei caratteri ambientali di laghi, bacini e corsi d'acqua), Art. 18 (Invasi ed alvei di laghi, bacini e corsi d'acqua), Art. 19 (Zone di particolare interesse paesaggistico ambientale), Art. 20_c3 (Calanchi meritevoli di tutela), Art. 25 (Zone di tutela naturalistica); Art. 28 (Zone di tutela dei corpi idrici superficiali e sotterranei).

application level (national, regional, or local)	*approval date or last revision*	*plan term*	*next planned revision*	*core zone*	*buffer zone*
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	100	100
Provincial	Delibera del Consiglio metropolitano n°16 del 12/05/2021			100	100
National	30/12/1923	No terms	No planned revision	80	50
National	24/02/2004	No terms	No planned revision	95	80
Local	First adoption in 1988; lastly modified by Del. of Provincial Council n.103 - 05/12/2005	No terms	No planned revision	100	100
European	DGR 512 - 20/04/2009	No terms	No planned revision	100	80
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	85	85
National	DPCM 27/10/2016	Periodico	2022	90	5
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	5	5
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	100	90

5 d Regional/municipal plans

	regional or municipal or park authority	*plan type (territorial plan / urban plan)*
	Città Metropolitana di Bologna	Piano Territoriale Metropolitano Art. 4.2 (alvei attivi e invasi dei bacini idrici); Art. 7.3 (Zone di particolare interesse paesaggistico ambientale); Art. 7.6 (crinali, calanchi e dossi); Art. 7.5 (Zone di tutela naturalistica); Art. 5.2 (Aree sottoposte a particolare tutela).
	Provincia di Ravenna	Piano Territoriale di Coordinamento Provinciale Art. 3.17 (Zone di tutela dei caratteri ambientali di laghi, bacini e corsi d'acqua); Art. 3.18 (Invasi ed alvei di laghi, bacini e corsi d'acqua); Art. 3.19 (Zone di particolare interesse paesaggistico ambientale); Art. 3.20 (zone di tuela di specifici elementi: dossi e calanchi); Art. 3.21 (Aree di concentrazione di materiali archeologici); Art. 3.25 (Zone di tutela naturalistica); Art. 5.3 (Zone di protezione delle acque sotterranee nel territorio di pedecollinapianura).
	Unione della Romagna Faentina	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)
	Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge); Art. 136 (Immobili ed Aree di Notevole Interesse Pubblico).
	Ente di Gestione Macroarea Romagna	Il Parco è zonizzato, vi sono regolamenti specifici ma il Piano del Parco è in attes di approvazione da anni a causa del problema della cava di Monte Tondo.
	Ente di Gestione Macroarea Romagna	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC-ZPS IT4070011 (VENA DEL GESSO ROMAGNOLA)
	Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
	Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
	Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.
6 Evaporiti San Leo	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 17 (Zone di tutela dei caratteri ambientali di laghi, bacini e corsi d'acqua), Art. 18 (Invasi ed alvei di laghi, bacini e corsi d'acqua), Art. 25 (Zone di tutela naturalistica);
	Provincia di Rimini	Piano Territoriale di Coordinamento Provinciale Art. 5.4 (Zone di tutela dei caratteri ambientali di laghi, bacini e corsi d'acqua); Art. 2.2 (Invasi ed alvei di laghi, bacini e corsi d'acqua); Art. 5.2 (Zone di tutela naturalistica);

application level (national, regional, or local)	*approval date or last revision*	*plan term*	*next planned revision*	*core zone*	*buffer zone*
Provincial	Delibera del Consiglio metropolitano n°16 del 12/05/2021			100	90
Provincial	Delibera del Consiglio provinciale n°9 del 28/02/2006			100	90
National	30/12/1923	No terms	No planned revision	85	80
National	24/02/2004	No terms	No planned revision	60	35
Local	Istituzione del Parco Regionale con L.R.10/2005	Il Piano del Parco deve ancora essere approvato.	No planned revision	-----	-----
European	DGR 512 - 20/04/2009	No terms	No planned revision	100	75
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	3	3
National	DPCM 27/10/2016	Periodico	2022	90	60
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	3	3
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	25	30
Provincial	Delibera del Consiglio provinciale n°12 del 23/04/2013			25	30

5 d Regional/municipal plans

	regional or municipal or park authority	*plan type (territorial plan / urban plan)*
	Unione di Comuni Val Marecchia	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)
	Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge).
	Ente di Gestione Macroarea Romagna	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC-ZPS IT4090003 (RUPI E GESSI DELLA VALMARECCHIA)
	Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
	Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
	Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.
7 Gessi di Onferno	Emilia-Romagna Regional Administration	PTPR - Piano Territoriale Paesistico Regionale Art. 19 (Zone di particolare interesse paesaggistico ambientale), Art. 20_c3 (Calanchi meritevoli di tutela), Art. 25 (Zone di tutela naturalistica), Art. 28 (Zone di tutela dei corpi idrici superficiali e sotterranei).
	Management Authority for Parks and Biodiversity - Romagna	Riserva regionale Onferno
	Provincia di Rimini	Piano Territoriale di Coordinamento Provinciale Art. 5.3 (Zone di particolare interesse paesaggistico ambientale); Art. 4.1 (ambiti a pericolosità geomorfologica-calanchi); Art. 5.2 (Zone di tutela naturalistica); Art. 3.1 (zone di tutela dei corpi idrici superificiali e sotterranei).
	Unione dei Comuni ValConca	Vincolo Idrogeologico (R.D. 3267/1923 + R.D.1126/1926)
	Ministero dei Beni Culturali	Codice dei Beni Culturali e del Paesaggio (D.Lgs. 42/2004) Art. 142 (aree tutelate per legge).
	Ente di Gestione Macroarea Romagna	Misure Generali di Conservazione dei Siti RN2000 + Misure Specifiche di Conservazione dei sito ZSC IT4090001 (ONFERNO)
	Emilia-Romagna Regional Administration	PTA - Piano di Tutela delle Acque
	Emilia-Romagna Regional Administration	PDG(A) - Piano di Gestione delle Acque
	Emilia-Romagna Regional Administration	PAI - Piano di Assetto Idrogeologico + PGRA - Piano di Gestione del Rischio Alluvioni.

application level (national, regional, or local)	*approval date or last revision*	*plan term*	*next planned revision*	*core zone*	*buffer zone*
National	30/12/1923	No terms	No planned revision	No data - ex Marche	No data - ex Marche
National	24/02/2004	No terms	No planned revision	65	40
European	DGR 145 - 01/02/2010	No terms	No planned revision	100	100
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	10	0
National	DPCM 27/10/2016	Periodico	2022	85	90
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	0	10
Regional	Legge Regionale 6 settembre 1993, n. 31	The PTPR does not expire, but it is foreseen that modifications can be made on the initiative of the Regional Council, the Provinces and the interested Municipalities.	2022	100	100
regional	2006	No terms	No planned revision	100	70
Provincial	Delibera del Consiglio provinciale n°12 del 23/04/2013			100	100
National	30/12/1923	No terms	No planned revision	100	100
National	24/02/2004	No terms	No planned revision	25	30
European	DGR 167 - 13/02/2006	No terms	No planned revision	98	70
National	Del-Ass.Leg. n. 40 del 21 dicembre 2005	Periodico	2022	0	0
National	DPCM 27/10/2016	Periodico	2022	0	0
National	In conclusione entro il 22 dicembre 2021	quinquennale	2026	0	0

MEMORANDUM OF UNDERSTANDING TO SUPPORT THE NOMINATION OF THE GYPSUM KARST AREAS OF THE EMILIA-ROMAGNA REGION FOR INSCRIPTION ON THE UNESCO WORLD HERITAGE LIST

MEMORANDUM OF UNDERSTANDING TO SUPPORT THE NOMINATION OF THE GYPSUM KARST AREAS OF THE EMILIA-ROMAGNA REGION FOR INSCRIPTION ON THE UNESCO WORLD HERITAGE LIST

between

Emilia-Romagna Regional Administration, tax code 80062890379, with registered office in Viale Aldo Moro 52, Bologna, represented by the Assessor for mountain and inland areas, territorial planning and equal opportunities Barbara Lori, domiciled for her office at Viale Aldo Moro 30, Bologna, and authorized to enter into this deed by means of the resolution of the Executive Board of the Emilia-Romagna Regional Administration no. 2160 of 20/12/2021;

Appennino Tosco-Emiliano National Park, tax code 02018520359, with registered office in Via Comunale 23, Sassalbo di Fivizzano (MS), represented by its President Fausto Giovannelli, domiciled for his office at Via Comunale 23, Sassalbo di Fivizzano (MS), and authorized to enter into this deed by means of the resolution of the Board of Directors no. 47 of 29/10/2021;

Management Authority for Parks and Biodiversity - Emilia Centrale, tax code 94164020367, with registered office in Via Martiri della Libertà 34, Modena, represented by its President Giovanni Battista Pasini, domiciled for his office at Via Martiri della Libertà 34, Modena, and authorized to enter into this deed by means of the resolution of the Executive Committee no. 69 of 15/11/2021;

Management Authority for Parks and Biodiversity - Emilia Orientale, tax code 03171551207, with registered office in Piazza XX Settembre 1, Marzabotto (BO), represented by its President Sandro Ceccoli, domiciled for his office at Via Abbazia 28, Monteveglio (BO), and authorized to enter into this deed by means of the resolution of the Executive Committee no. 89 of 19/11/2021;

Management Authority for Parks and Biodiversity - Romagna, tax code 90030910393, with registered office in Via Aldo Moro 2, Riolo Terme (RA), represented by its President Antonio Venturi, domiciled for his office at Via Aldo Moro 2, Riolo Terme (RA), and authorized to enter into this deed by means of the resolution of the Executive Committee no. 43 of 08/11/2021;

Metropolitan City of Bologna, tax code 03428581205, with registered office in Via Zamboni 13, Bologna, represented by its Metropolitan Mayor Matteo Lepore, domiciled for his office at Via Zamboni 13, Bologna, and authorized to enter into this deed by means of the resolution of the Metropolitan City Council no. 48 of 22/12/2021;

Province of Ravenna, tax code 00356680397, with registered office in Piazza Caduti per la Libertà 2, Ravenna, represented by its President Michele de Pascale, domiciled for his office at Piazza Caduti per la Libertà 2, Ravenna, and authorized to enter into this deed by means of the resolution of the Province Council no. 32 of 26/11/2021;

Province of Reggio Emilia, tax code 00209290352, with registered office in Corso Garibaldi 59, Reggio Emilia, represented by the Manager for territorial planning Anna Maria Campeol, domiciled for her office at Piazza Gioberti 4, Reggio Emilia, and authorized to enter into this deed by means of the Presidential decree no. 182 of 15/11/2021;

Province of Rimini, tax code 91023860405, with registered office in Via Dario Campana 64, Rimini, represented by its President Riziero Santi, domiciled for his office at Via Dario Campana 64, Rimini, and authorized to enter into this deed by means of the resolution of the Province Council no. 26 of 29/11/2021;

Mountain Union of the Municipalities of Appennino Reggiano, tax code 91167000354, with registered office in Via Dei Partigiani 10, Castelnovo ne' Monti (RE), represented by its President Tiziano Borghi, domiciled for his office at Via Dei Partigiani 10, Castelnovo ne' Monti (RE), and authorized to enter into this deed by means of the resolution of the Executive Board no. 87 of 9/12/2021;

Union of Colline Matildiche, tax code 02358290357, with registered office in Piazza Dante 1, Quattro Castella (RE), represented by its President Stefano Vescovi or his delegate, domiciled for his office at Piazza Dante 1, Quattro Castella (RE), and authorized to enter into this deed by means of the resolution of the Union Council no. 37 of 14/12/2021;

Union of Tresinaro-Secchia, tax code 02337870352, with registered office in Corso Vallisneri 6, Scandiano (RE), represented by its President Matteo Nasciuti, domiciled for his office at Corso Vallisneri 6, Scandiano

(RE), and authorized to enter into this deed by means of the resolution of the Executive Board no. 70 of 7/12/2021;

New District of Imola, tax code 90036770379, with registered office in Via Boccaccio 27, Imola (BO), represented by its President Marco Panieri, domiciled for his office at Via Boccaccio 27, Imola (BO), and authorized to enter into this deed by means of the resolution of the Executive Board no. 125 of 30/11/2021;

Union Valli Reno, Lavino Samoggia, tax code 91311930373, with registered office in Via dei Mille 9, Casalecchio di Reno (BO), represented by its President Massimo Bosso, domiciled for his office at Via dei Mille 9, Casalecchio di Reno (BO), and authorized to enter into this deed by means of the resolution of the Council no. 25 of 29/11/2021;

Union of Municipalities of Savena-Idice, tax code 02961561202, with registered office in Viale Risorgimento 1, Pianoro (BO), represented by its President Luca Lelli, domiciled for his office at Viale Risorgimento 1, Pianoro (BO), and authorized to enter into this deed by means of the resolution of the Council no. 40 of 30/11/2021;

Union of Romagna Faentina, tax code 90028320399, with registered office in Piazza del Popolo 31, Faenza (RA), represented by its President Massimo Isola, domiciled for his office at Piazza del Popolo 31, Faenza (RA), and authorized to enter into this deed by means of the resolution of the Council no. 43 of 30/11/2021;

Union of Municipalities of Valmarecchia, tax code 91120860407, with registered office in Piazza Bramante 11, Novafeltria (RN), represented by its President Stefania Sabba, domiciled for her office at Piazza Bramante 11, Novafeltria (RN), and authorized to enter into this deed by means of the resolution of the Executive Board no. 67 of 22/12/2021;

Union of Municipalities of Valconca, tax code 91050550408, with registered office in Via Tavoleto 1835, San Clemente - Rimini (RN), represented by the Chairman of the Union Council Gioacchino di Pasqua, domiciled for his office at Via Tavoleto 1835, San Clemente - Rimini (RN), and authorized to enter into this deed by means of the resolution of the Council no. 30 of 29/11/2021;

Municipality of Albinea (RE), tax code 00441130358, with registered office in Piazza Cavicchioni 8, Albinea (RE), represented by its Mayor Nico Giberti, domiciled for his office at Piazza Cavicchioni 8, Albinea (RE), and authorized to enter into this deed by means of the resolution of the Town Council no. 68 of 29/11/2021;

Municipality of Castelnovo ne' Monti (RE), tax code 00442010351, with registered office in Piazza Gramsci 1, Castelnovo ne' Monti (RE), represented by its Mayor Enrico Bini, domiciled for his office at Piazza Gramsci 1, Castelnovo ne' Monti (RE), and authorized to enter into this deed by means of the resolution of the Executive Board no. 119 of 16/11/2021;

Municipality of Scandiano (RE), tax code 00441150356, with registered office in Corso Vallisneri 6, Scandiano (RE), represented by its Mayor Matteo Nisciuti, domiciled for his office at Corso Vallisneri 6, Scandiano, and authorized to enter into this deed by means of the resolution of the Town Council no. 106 of 30/11/2021;

Municipality of Ventasso (RE), tax code 91173360354, with registered office in Via della Libertà 36, Busana (RE), represented by its Mayor Enrico Ferretti, domiciled for his office at Via della Libertà 36, Busana (RE), and authorized to enter into this deed by means of the resolution of the Executive Board no. 190 of 06/12/2021;

Municipality of Vezzano sul Crostolo (RE), tax code 00441360351, with registered office in Piazza della Libertà 1, Vezzano sul Crostolo (RE), represented by its Mayor Stefano Vescovi, domiciled for his office at Piazza della Libertà 1, Vezzano sul Crostolo (RE), and authorized to enter into this deed by means of the resolution of the Town Council no. 33 of 29.11.2021;

Municipality of Viano (RE), tax code 00431850353, with registered office in Via San Polo 1, Viano (RE), represented by its Mayor Nello Borghi, domiciled for his office at Via San Polo 1, Viano (RE), and authorized to enter into this deed by means of the resolution of the Executive Board no. 67 of 20/11/2021;

Municipality of Villa Minozzo (RE), tax code 00431620350, with registered office in Piazza della Pace 1, Villa Minozzo (RE), represented by its Mayor pro tem Elio Ivo Sassi, domiciled for his office at Piazza della Pace 1, Villa Minozzo (RE), and authorized to enter into this deed by means of the resolution of the Town Council no. 52 of 25/11/2021;

Municipality of Borgo Tossignano (BO), tax code 82000010379, with registered office in Piazza Unità d'Italia 7, Borgo Tossignano (BO), represented by its Mayor pro tem Mauro Ghini, domiciled for his office at Piazza Unità d'Italia 7, Borgo Tossignano (BO), and authorized to enter into this deed by means of the resolution of the Council no. 48 of 29/11/2021;

Municipality of Casalfiumanese (BO), tax code 82002150371, with registered office in Piazza A. Cavalli 15, Casalfiumanese (BO), represented by its Mayor Beatrice Poli, domiciled for her office at Piazza A. Cavalli 15, Casalfiumanese (BO), and authorized to enter into this deed by means of the resolution of the Council no. 71 of 25/11/2021;

Municipality of Fontanelice (BO), tax code 01125200376, with registered office in Piazza del Tricolore 2, Fontanelice (BO), represented by its Mayor Gabriele Meluzzi, domiciled for his office at Piazza del Tricolore 2, Fontanelice (BO), and authorized to enter into this deed by means of the resolution of the Council no. 48 of 30/11/2021;

Municipality of Pianoro (BO), tax code 00586340374, with registered office in Piazza dei Martiri 1, Pianoro (BO), represented by its Mayor Franca Filippini, domiciled for her office at Piazza dei Martiri 1, Pianoro (BO), and authorized to enter into this deed by means of the resolution of the Executive Board no. 85 of 09/11/2021;

Municipality of San Lazzaro (BO), tax code 00754860377, with registered office in Piazza Bracci 1, San Lazzaro di Savena (BO), represented by its Mayor Isabella Conti, domiciled for her office at Piazza Bracci 1, San Lazzaro di Savena (BO), and authorized to enter into this deed by means of the resolution of the Council no. 46 of 22/12/2021;

Municipality of Sasso Marconi (BO), tax code 01041300375, with registered office in Piazza Martiri della Liberazione 6, Sasso Marconi (BO), represented by its Mayor Roberto Parmeggiani, domiciled for his office at Piazza Martiri della Liberazione 6, Sasso Marconi (BO), and authorized to enter into this deed by means of the resolution of the Council no. 93 of 23/11/2021;

Municipality of Zola Predosa (BO), tax code 01041340371, with registered office in Piazza della Repubblica 1, Zola Predosa (BO), represented by its Mayor Davide Dall'Omo, domiciled for his office at Piazza della Repubblica 1, Zola Predosa (BO), and authorized to enter into this deed by means of the resolution of the Council no. 88 of 24/11/2021;

Municipality of Brisighella (RA), tax code 00202300398, with registered office in Via Naldi 2, Brisighella (RA), represented by its Mayor Massimiliano Pederzoli, domiciled for his office at Via Naldi 2, Brisighella (RA), and authorized to enter into this deed by means of the resolution of the Council no. 46 of 29/11/2021;

Municipality of Casola Valsenio (RA), tax code 81002910396, with registered office in Via Roma 50, Casola Valsenio (RA), represented by its Mayor Sergio Sagrini, domiciled for his office at Via Roma 50, Casola Valsenio (RA), and authorized to enter into this deed by means of the resolution of the Council no. 52 of 30/11/2021;

Municipality of Riolo Terme (RA), tax code 00226010395, with registered office in Via A. Moro 2, Riolo Terme (RA), represented by its Mayor Alfonso Nicolardi, domiciled for his office at Via A. Moro 2, Riolo Terme (RA), and authorized to enter into this deed by means of the resolution of the Council no. 42 of 29/11/2021;

Municipality of Gemmano (RN), tax code 82005670409, with registered office in Piazza Roma 1, Gemmano (RN), represented by its Mayor Riziero Santi, domiciled for his office at Piazza Roma 1, Gemmano (RN), and authorized to enter into this deed by means of the resolution of the Council no. 44 of 23/11/2021;

Municipality of San Leo (RN), tax code 00315680413, with registered office in Piazza Dante Alighieri 1, San Leo (RN), represented by its Mayor Leonardo Bindi, domiciled for his office at Piazza Dante Alighieri 1, San Leo (RN), and authorized to enter into this deed by means of the resolution of the Council no. 30 of 19/11/2021;

it is agreed as follows:

ART. 1 – PURPOSES

This Memorandum of Understanding is entered into by the signing parties in accordance with their institutional interests in order to carry out the actions required to support the nomination of the gypsum karst areas of the Emilia-Romagna Region for inscription on the UNESCO World Heritage List and expresses the commitment by the signing parties to cooperate and harmonize their actions in the territory in order to achieve this objective. The maps showing the gypsum karst areas of the Emilia-Romagna Region are attached to this Memorandum of Understanding.

ART. 2 - COMMITMENTS BY THE SIGNING PARTIES

By signing this Memorandum, the signing parties undertake to back and support the nomination of the gypsum karst areas of the Emilia-Romagna Region in each and every step of the relevant process as well as to establish an Institutional Committee as specified under art. 3 of this document.

Moreover, in synergy with the other local stakeholders, the signing parties undertake to cooperate in order to promote in the territories concerned, within their own competences and areas of action, any actions, projects, programmes and strategies for the development of the following main points:

- protection of the environmental balance and epigean and hypogean ecosystems;
- protection and preservation of the geosites and geological landscape of the gypsum areas;
- enhancement of the historical, cultural, social and archaeological aspects of the territories;
- environmental education of the local population and visitors of the protected areas and adjacent areas;
- sustainable development of the territory through best practices and the promotion of economic activities.

No direct burdens on the signing parties of this Memorandum are expected.

ART. 3 – INSTITUTIONAL COMMITTEE AND COORDINATION

An Institutional Committee, based at the Emilia-Romagna Regional Administration but with no economic burdens on the latter, is established in order to back and support the nomination process and promote the points under art. 2 in the territories.

If necessary, the Institutional Committee may create thematic and project focus groups on specific topics for the elaboration of the project, making use of the Working Group.

The Institutional Committee is chaired by the Assessor for mountain and inland areas, territorial planning and equal opportunities of the Emilia-Romagna Regional Administration and consists of the representatives of the signing parties.

The coordination of activities is carried out by the Emilia-Romagna Regional Administration, making use of the technical-scientific Working Group established by means of the resolution no. 12029 of 25/07/2018 by the General Manager for the Care for the territory and the environment. Such Working Group periodically discusses the progress of the nomination process with the Institutional Committee.

The Institutional Committee establishes the governance and general objectives of the overall strategy of management of these areas according to UNESCO standards.

After having consulted the Institutional Committee, the Executive Board of the Emilia-Romagna Regional Administration approves the Nomination Document to be submitted to the Italian National Commission for UNESCO.

ART. 4 – DEVELOPMENT OF ACTIVITIES AFTER RECOGNITION

After recognition, the signing parties of this Memorandum shall redefine their commitments according to the agreement with UNESCO in order to implement the management plan developed and established during the nomination process.

ART. 5 - TERM

This Memorandum of Understanding shall be in force for 4 (four) years as from the index date and may be renewed for further 4 years.

ART. 6 – WITHDRAWAL – VALIDITY - AMENDMENTS

Each party shall be allowed to withdraw from this Memorandum at any time by notifying the other parties of such decision.

The withdrawal from this Memorandum or the failure to sign it by one or more signing parties shall not void this Memorandum.

The parties agree that this Memorandum may be signed by additional parties wishing to enter into it, without requiring the existing signing parties to take any action in relation thereto. If the application for inclusion of the gypsum areas being nominated is rejected and thus the process of request for recognition as Unesco Heritage cannot be carried on, this Memorandum of Understanding shall become null and void.

The parties reserve the right to agree any amendments or supplements to this Memorandum by means of appropriate additional deeds.

ART. 7 DATA PROCESSING

The parties undertake that neither themselves nor their employees and collaborators shall disclose to third parties any confidential data, information, documents and news acquired as a result of this Memorandum.

The methods and purposes of processing of the personal data managed within the activities carried out in relation to this Memorandum shall comply with the principles of fairness, lawfulness and transparency as well as with the EU General Data Protection Regulation no. 679/2016 and with the Italian government decree no. 196 of 30 June 2003 as subsequently modified and supplemented.

ART. 8 – APPROVAL, REGISTRATION AND DISPUTES

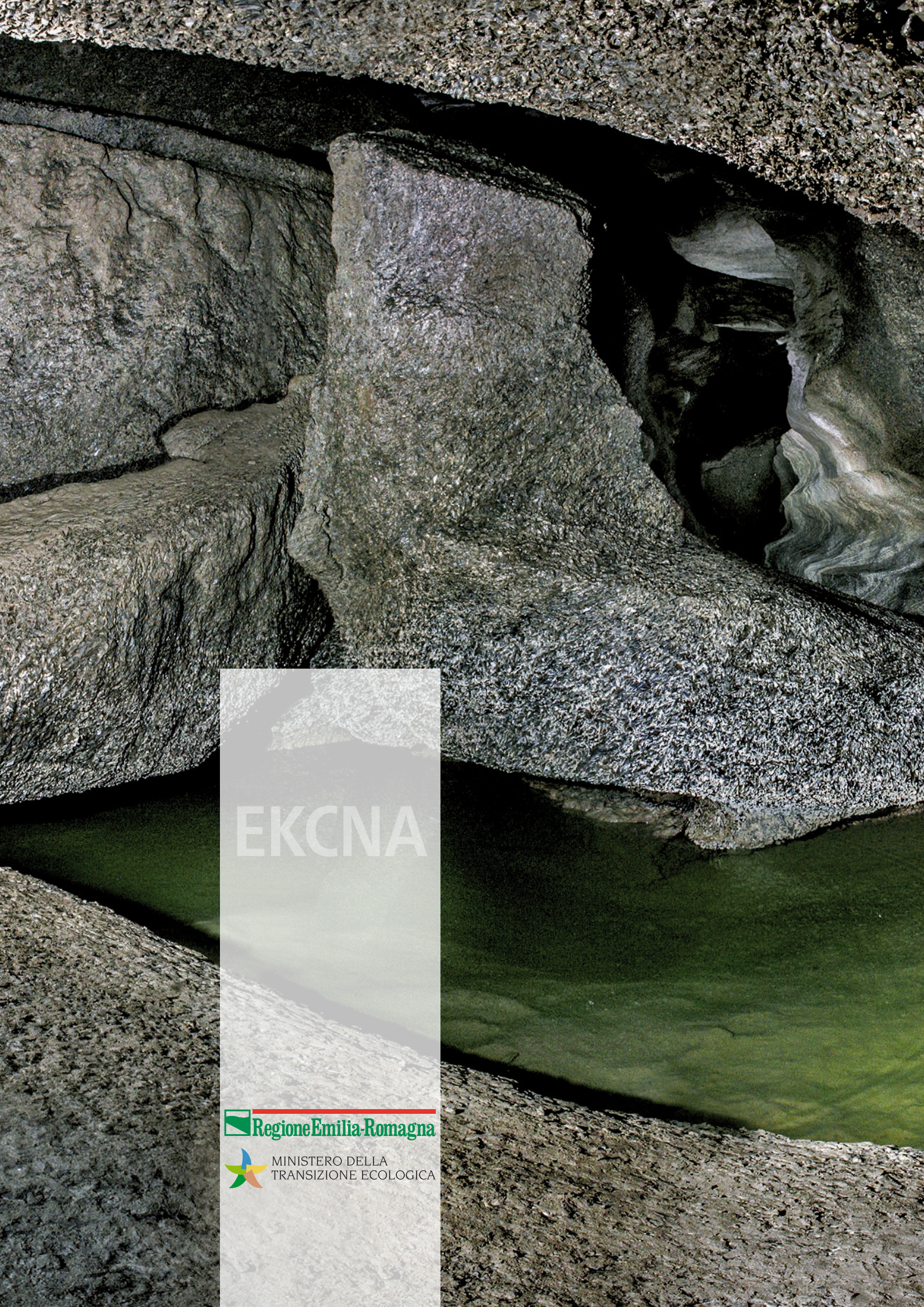
This Memorandum of Understanding is signed for approval by the legal representatives of the parties concerned according to the relevant procedures required by law and by their respective by-laws.

This deed is exempt from stamp duty since it is signed between public corporations, pursuant to art. 16, table B, of the Italian presidential decree no. 642 of 26 October 1972, as modified by art. 28 of the Italian presidential decree no. 955 of 30 December 1982, and it will be registered if used. Registration expenses shall be borne by the party requesting registration.

Any dispute that may arise in relation to the execution of this Memorandum of Understanding which cannot be amicably settled shall be submitted to the competent body provided for by the laws in force.

After having been read and approved, this Memorandum is signed by means of digital signature pursuant to art. 15, par. 2-bis, of the Italian act no. 241/1990 as subsequently modified and supplemented.





Regione Emilia-Romagna

MINISTERO DELLA
TRANSIZIONE ECOLOGICA