



Mid-term Report

LIFE17 NAT/GR/000522 - LIFE GRECABAT

Reporting period:

01/09/2018 – 29/02/2020

DELIVERABLE – ACTION D4

LIFE - Performance indicators of the project

-

Relative analysis report

UoC

Summary

The purpose of the action is to select and record quality and quantitative performance indicators of the project. These indicators can be used to report the success of LIFE GRECABAT (based on paragraph 3 of Article 3 of the Life Regulation). An additional purpose of the action is to insert these indicators in the KPI database through the KIP web-tool but also to update these indicators in order to reflect in the best possible way the real results of the project.

A first review of the proposal performance indicators in relation to the needs of the KPI web-tool has already started. A problem was encountered with accessing the KPI web-tool, and therefore we have not managed to upload the KPIs into the web platform. The problem has been reported at the ENV-CLIMA-LIFE Helpdesk on December 6, 2018 (we have sent our account details in order to enable our access to the KPI web-tool) and was reminded on December 13, 2018. The project team was finally informed by the EMT (NEEMO GEIE) on 27/03/2019 that the access to the web tool was enabled.

Since then we have tried to insert the indices into the web tool but have encountered several problems on how to insert the indices which are discussed below (e.g. definition of overarching and specific contexts, identification of indices that require analysis that is not available but planned to be implemented in the context of the actions, the absence of Annex II species from the drop down lists, the absence of cave habitat from the list of ecosystem services), all of which in combination with the workload of the team on other actions (during this time) delayed the introduction of indicators for 8 months (first submission for verification was made on 4th of December 2019).

On the 4th of December 2019 KPIs submitted for verification in the web tool although there were a lot of things to discuss with the EMT in order to get more precise instructions to correct possible problems. On 27/12/2019 we received detailed list of comments and requests of clarifications. On 07/02/2020 we send our answers and clarifications on the ETM questions & comments and on 27th of February 2020 we got instructions on how to correct indices by the external monitoring team. Finally 05/03/2020 we submitted KPIs of LIFE GRECABAT for verification.

Αναφορά ανάλυσης των δεικτών του KPI

Σκοπός της δράσης είναι η επιλογή και καταγραφή ποιοτικών και ποσοτικών δεικτών αποτελεσματικότητας του προγράμματος (LIFE GRECABAT). Μέσω αυτών των δεικτών θα μπορεί να γίνεται αναφορά της επιτυχίας του προγράμματος (με βάση την παράγραφο 3 του άρθρου 3 του κανονισμού των Life [Life Regulation]). Επιπλέον σκοπός της δράσης είναι η εισαγωγή των δεικτών αυτών στη βάση δεδομένων των KPI μέσω του KIP web-tool αλλά και η ενημέρωση των δεικτών αυτών ώστε να αντικατοπτρίζουν με τον καλύτερο δυνατό τρόπο τα πραγματικά αποτελέσματα του προγράμματος (<https://webgate.ec.europa.eu/eproposalWeb/kpi/module>).

Με βάση τις οδηγίες (160215_LIFEproject_level_outcome_indicators) το πρώτο βήμα για την εισαγωγή των δεικτών γίνεται με την συμπλήρωση κατά την υποβολή της πρότασης του “LIFE Performance Indicators.xlsx” όπου και συμπληρώνονται οι δείκτες αποτελεσματικότητας του προγράμματος και οι τιμές στόχοι (α) μέχρι το τέλος του προγράμματος και (β) για 5 χρόνια μετά το τέλος του προγράμματος για τα Life Nature όπως το LIFE GRECABAT.

Σαν δεύτερο βήμα περιγράφεται η καταγραφή της αρχικής / υφιστάμενης κατάστασης (baseline data) στην αρχή του προγράμματος πριν την εφαρμογή των δράσεων. Για το σκοπό αυτό στο LIFE GRECABAT εφαρμόζονται οι προπαρασκευαστικές δράσεις A1 και A4 οι οποίες είναι σε εξέλιξη και προβλέπεται να ολοκληρωθούν 31/05/2020 και 30/07/2020 αντίστοιχα. Επομένως οι δείκτες με βάση τα δεδομένα των δράσεων A1 και A4 θα είναι διαθέσιμοι με την ολοκλήρωση των δράσεων αυτών όπου θα ενημερωθούν και τα αντίστοιχα πεδία της βάσης δεδομένων του KPI web-tool.

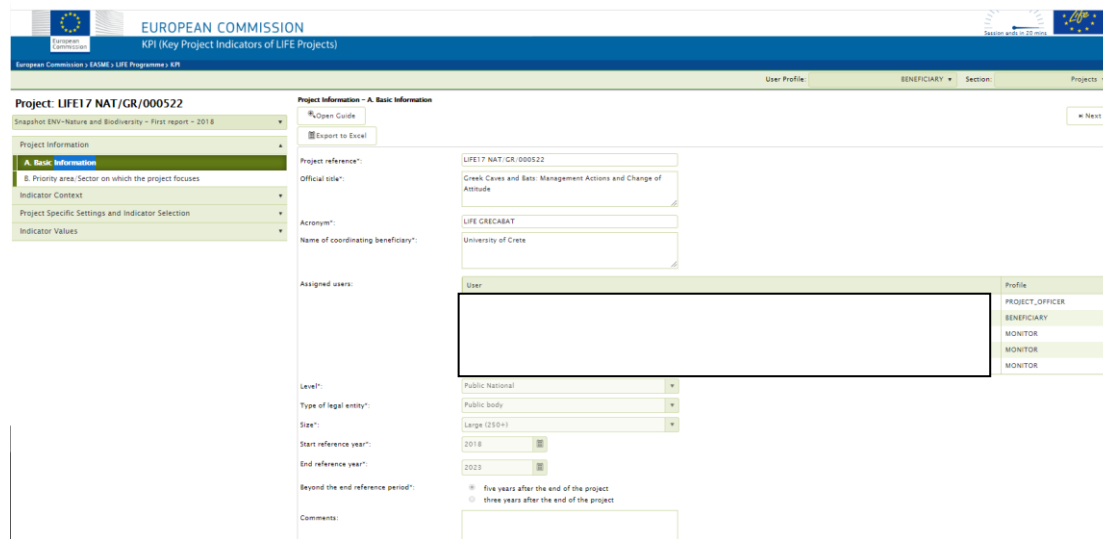
Πριν από την πρώτη αναφορά προόδου (1st Progress Report) έγινε προσπάθεια να ενημερωθεί η πλατφόρμα με βάση το xlsx της πρότασης αλλά δεν ήταν δυνατή η πρόσβαση μας στην εφαρμογή του KPI web-tool. Μετά από επανειλημμένες δοκιμές κοινοποιήσαμε το πρόβλημα στην εξωτερική ομάδα παρακολούθησης (NEEMO) που με τη σειρά της μας παρέπεμψε στο ENV-CLIMA-LIFE-HELPDESK@ec.europa.eu όπου και όπου και στείλαμε σχετική αναφορά του προβλήματος (06/12/1018).

Στη συνέχεια (06/12/2018) μας ζητήθηκε να αποστείλουμε τα στοιχεία του λογαριασμού (account details) από το <https://webgate.ec.europa.eu/cas/userdata/ShowDetails.cgi> ώστε να ενεργοποιηθεί ο λογαριασμός μας στο KPI Web-tool, στείλαμε τις πληροφορίες του λογαριασμού. Στις 27/03/2019 ενημερωθήκαμε από την εξωτερική ομάδα παρακολούθησης ότι ενεργοποιήθηκε η δυνατότητα πρόσβασης μας στο KPI web-tool. Από την ενεργοποίηση της πρόσβασης ξεκίνησαν οι προσπάθειες εισαγωγής των δεικτών στο web-tool για διάφορους λόγους (δυσκολία: [1] στην κατανόηση των απαιτήσεων, στην εκτίμηση των δεικτών, [2] την εισαγωγή κάποιων παραμέτρων που δεν υπάρχουν στις λίστες επιλογής ή δεν εκφράζονται ικανοποιητικά, [3] τον μεγάλο φόρτο εργασίας της ομάδας στην υλοποίηση των δράσεων του προγράμματος) η τελική εισαγωγή – προσαρμογή των αρχικών δεικτών καθυστέρησε με την πρώτη εισαγωγή τελικά στις 04/12/2019. Σε συνέχεια της υποβολής για έγκριση των δεικτών (04/12/2019) λάβαμε στις 27/12/2019 οδηγίες, σχόλια και προτάσεις για τη διόρθωση των δεικτών από την εξωτερική ομάδα παρακολούθησης (EMT – NEEMO), στη συνέχεια στις 07/02/2020 απαντήσαμε συνολικά στα σχόλια της εξωτερικής ομάδας ενώ ζητήσαμε να μας δοθεί η δυνατότητα να διορθώσουμε τους δείκτες. Στις 27/02/2020 η EMT έστειλε νέες

οδηγίες και διορθώσεις για την εισαγωγή των δεικτών τις οποίες ακολουθήσαμε όπου ήταν εφικτό και υποβάλαμε τους δείκτες για έγκριση στις 05/03/2020.

Συμπλήρωση των δεικτών

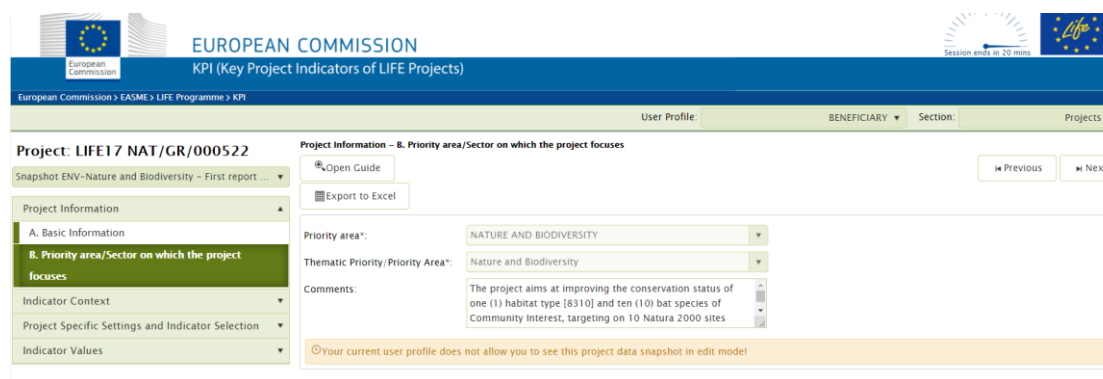
Γενικά στοιχεία του προγράμματος:



The screenshot shows the 'Project Information - A. Basic Information' section of the LIFE17 NAT/GR/000522 project. The page includes a navigation menu on the left with options like 'Project Information', 'A. Basic Information', 'B. Priority area', 'Indicator Context', 'Project Specific Settings and Indicator Selection', and 'Indicator Values'. The main content area contains the following fields:

- Project reference*:** LIFE17 NAT/GR/000522
- Official title*:** Greek Caves and Bats: Management Actions and Change of Attitude
- Acronym*:** LIFE GRECABAT
- Name of coordinating beneficiary*:** University of Crete
- Assigned users:** A table with columns for 'User' and 'Profile'. The 'User' column is currently empty, and the 'Profile' column lists roles: PROJECT_OFFICER, BENEFICIARY, MONITOR, MONITOR, MONITOR.
- Level*:** Public National
- Type of legal entity*:** Public body
- Size*:** Large (250+)
- Start reference year*:** 2018
- End reference year*:** 2023
- Beyond the end reference period*:** Radio buttons for 'five years after the end of the project' (selected) and 'three years after the end of the project'.
- Comments:** A text area for additional notes.

Πληροφορίες προγράμματος προτεραιότητα και τομέας που εστιάζει το πρόγραμμα



The screenshot shows the 'Project Information - B. Priority area/Sector on which the project focuses' section of the LIFE17 NAT/GR/000522 project. The page includes a navigation menu on the left with options like 'Project Information', 'A. Basic Information', 'B. Priority area/Sector on which the project focuses', 'Indicator Context', 'Project Specific Settings and Indicator Selection', and 'Indicator Values'. The main content area contains the following fields:

- Priority area*:** NATURE AND BIODIVERSITY
- Thematic Priority/Priority Area*:** Nature and Biodiversity
- Comments:** The project aims at improving the conservation status of one (1) habitat type [8310] and ten (10) bat species of Community interest, targeting on 10 Natura 2000 sites

An orange warning banner at the bottom states: "Your current user profile does not allow you to see this project data snapshot in edit mode!"

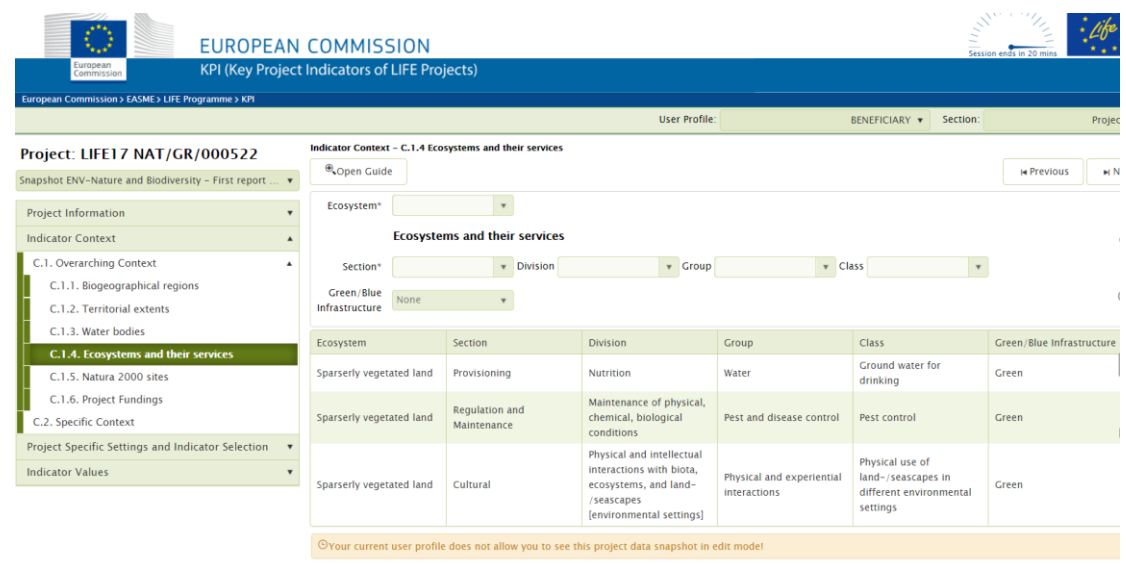
Πλαίσια προσδιορισμού των δεικτών:

Γενικό πλαίσιο δεικτών (Overarching contest)

Βιογεωγραφικές περιοχές / Επιλέχθηκε η Μεσογειακή περιοχή / παρά το γεγονός ότι κανένας δείκτης δεν αναφέρεται σε βιογεωγραφικό επίπεδο.

Στις επικράτειες που εκτείνεται το έργο / Επιλέχθηκε Ελλάδα εφόσον είναι είναι εθνικό πρόγραμμα με δράσεις σε όλη τη χώρα, αλλά και Κύπρος και Βουλγαρία, ευρωπαϊκές χώρες όπου τα αποτελέσματα θα μπορούσαν άμεσα να διαδοθούν λόγω γειννίας και κοινών αντιλήψεων και προβλημάτων.

Οικοσυστήματα και υπηρεσίες / βάλαμε περιοχές με αραιή βλάστηση (Sparsely vegetated land). Εφόσον ήταν η μοναδική από τις διαθέσιμες επιλογές που συσχετίζεται (αντιστοίχιση με Habitat 8310 από το MAES) με τον οικότοπο των σπηλαίων.



Ecosystem	Section	Division	Group	Class	Green/Blue Infrastructure
Sparsely vegetated land	Provisioning	Nutrition	Water	Ground water for drinking	Green
Sparsely vegetated land	Regulation and Maintenance	Maintenance of physical, chemical, biological conditions	Pest and disease control	Pest control	Green
Sparsely vegetated land	Cultural	Physical and intellectual interactions with biota, ecosystems, and land-/seascapes [environmental settings]	Physical and experiential interactions	Physical use of land-/seascapes in different environmental settings	Green

Περιοχές του δικτύου Natura στην Ελλάδα (οι δέκα επιλεγμένες περιοχές)

1. GR4220014 - KENTRIKI KAI NOTIA NAXOS: ZAS KAI VIGLA EOS MAVROVOUNI KAI THALASSIA ZONI (ORMOS KARADES - ORMOS MOUTSOUNAS)
2. GR4340010 - DRAPANO (VOREIOANATOLIKES AKTES) - PARALIA GEORGIROUPOLIS - LIMNI KOURNA
3. GR1110005 - VOUNA EVROU
4. GR2320007 - OROS PANACHAIKO
5. GR1260007 - ORI VRONTOUS - LAILIAS - EPIMIKES
6. GR1130008 - MARONEIA - SPILAION
7. GR2410001 - LIMNES YLIKI KAI PARALIMNI - SYSTEMA VOIOTIKOU KIFISOU
8. GR1240001 - KORYFES OROUS VORA
9. GR2320009 - SPILAIIO KASTRION
10. GR4340008 - LEFKA ORI KAI PARAKTIA ZONI



(p)SCI/SAC Code - Name	SPA Code - Name
GR4220014 - KENTRIKI KAI NOTIA NAXOS: ZAS KAI VIGLA EOS MAVROVOUNI KAI THALASSIA ZONI (ORMOS KARADES - ORMOS MOUITSOUNAS)	
GR4340010 - DRAPANO (VOREIOANATOLIKES AKTES) - PARALIA GEORGIOPOLIS - LIMNI KOURNA	
GR1110005 - VOUNA EVROU	
GR2320007 - OROS PANACHAIKO	
GR1260007 - ORI VRONTOUS - LAILIAS - EPIMIKES	
GR1130008 - MARONEIA - SPILAION	
GR2410001 - LIMNES YLIKI KAI PARALIMNI - SYSTIMA VOIOTIKOU KIFISOU	
GR1240001 - KORYFES OROUS VORA	
GR2320009 - SPILAIO KASTRION	
GR4340008 - LEFKA ORI KAI PARAKTIA ZONI	

Ειδικό πλαίσιο δεικτών (Specific context)

Δημιουργήθηκαν 13 ειδικότερα πλαίσια σε διάφορα χωρικά επίπεδα που περιγράφουν καλύτερα διάφορες πλευρές του προγράμματος:

ΕΘΝΙΚό ΕΠΙΠΕΔΟ:

1. Awareness raising to the general public (EL)
2. Establishment of volunteer network (EL)
3. National action plans for species and habitat(EL)
4. Change the attitude and behavior of stakeholders in Greece (EL)
5. Cave micro reserves (EL)
6. Project area LIFE GRECABAT (EL)

Περιοχές του Δικτύου Natura 2000:

1. Conservation of selected artificial habitats [GR2320007, GR1110005, GR4340008].
2. Conservation actions at the project sites [GR4340008, GR2320009, GR1240001, GR2410001, GR1130008, GR1260007, GR2320007, GR1110005, GR4340010, GR4220014].
3. Conservation of the selected caves [GR4220014, GR4340010, GR1260007, GR1130008, GR2410001, GR1240001, GR4340008, GR2320009].
4. Protection, restoration and management at project sites [GR4340008, GR2320009, GR1240001, GR2410001, GR1130008, GR1260007, GR2320007, GR1110005, GR4220014, GR4340010]
5. Early warning monitoring systems for habitat 8310 and important bat colonies [GR1240001, GR2320009, GR1130008]

ΆΛΛες Χώρες:

1. Dissemination in Bulgaria [BG]

2. Dissemination in Cyprus [CY]



Specific context name	Overarching contexts
Awareness raising to the general public	EL
Establishment of volunteer network	EL
National action plans for species and habitat	EL
Dissemination in Bulgaria	BG
Conservation of selected artificial habitats	GR2320007 GR1110005 GR4340008
Change the attitude and behavior of stakeholders in Greece	EL
Conservation actions at the project sites	GR4340008 GR2320009 GR1240001 GR2410001 GR1130008 GR1260007 GR2320007 GR1110005 GR4340010 GR4220014
Cave micro reserves	EL
Conservation of the selected caves	GR4220014 GR4340010 GR1260007 GR1130008 GR2410001 GR1240001 GR4340008 GR2320009
Protection, restoration and management at project sites	GR4340008 GR2320009 GR1240001 GR2410001 GR1130008 GR1260007 GR2320007 GR1110005 GR4220014 GR4340010
Early warning monitoring systems for habitat 8310 and important bat colonies	GR1240001 GR2320009 GR1130008
Project area LIFE GRECABAT	EL
Dissemination in Cyprus	CY

Δείκτες και σημειώσεις για τις εκτιμήσεις που δόθηκαν κατά την συμπλήρωση:

Για τον υπολογισμό των δεικτών χρησιμοποιήθηκαν τα παρακάτω δεδομένα:

1. Η μέτρηση των επιφανειών γύρω από τα σημαντικά καταφύγια χειροπτέρων με βάση το share-file των σημαντικών περιοχών για τα σπηλαία και τα χειρόπτερα στην Ελλάδα (<https://www.lifegrecabat.eu/el/news-articles/239>) η εκτίμηση των 11,662.00 ha αφορά τις θέσεις του προγράμματος ενώ η εκτίμηση 100,000.00 ha αφορά το σύνολο των θέσεων που θα ωφεληθούν από την υλοποίηση των δύο εθνικών σχεδίων δράσης του προγράμματος.
2. Οι τιμές αναφέρονται στο άθροισμα των επιφανειών των επιλεγμένων σπηλαίων για την υλοποίηση των δράσεων C, και περιλαμβάνουν μια περιφερειακή ζώνη γύρω τους (με μέση ακτίνα αρκετών εκατοντάδων μέτρων) που σχεδιάστηκε με βάση: το σχήμα, τον προσανατολισμό της εισόδου, οικολογικές απαιτήσεις των ειδών και τα γύρω ενδιαίτηματα (π.χ. δάση, υγρά τοπία, ρέματα με φυσική βλάστηση) και τη γεωλογία & υδρογεωλογία της περιοχής.
3. Τις εκτιμήσεις για τους πληθυσμούς χειροπτέρων από τις δειγματοληψίες που έγιναν στα πλαίσια της δράσης A1 (από τις απευθείας καταμερίσεις αποικιών σε διάφορες εποχές του έτους αλλά χωρίς να έχουν συμπεριληφθεί δεδομένα ηχογραφήσεων). Είναι πιθανό οι παραπάνω εκτιμήσεις να διορθωθούν στη συνέχεια με πιο ακριβείς τιμές και εκτιμήσεις.
4. Η επιφάνεια του οικοτόπου των σπηλαίων (8310) προσεγγίζεται (αδρή εκτίμηση με βάση την κάτοψη των σπηλαίων) ως ή συνολική επιφάνεια που περιλαμβάνει όλο τον διαθέσιμο θώκο για τα είδη των σπηλαίων (δάπεδο, οροφή και κατακόρυφες επιφάνειες). Η επιφάνεια είναι προφανώς υποτιμημένη εφόσον το έντονο ανάγλυφο είναι πολύ δύσκολο να μετρηθεί.

5. Για τα καταφύγια χειρότερων που δεν είναι σπήλαια (δηλαδή ορυχεία, αποστραγγιστικές σήραγγες παλαιά σπήλαια) υπολογίζεται περίπου ως η επιφάνεια της κάτοψης τους.

Με βάση τα παραπάνω προκύπτουν οι παρακάτω εκτιμήσεις:

• Psimaki cave , GR4340010 ,	0.26 ha
• Tzani cave , GR4340008 ,	1.21 ha
• Za cave , GR4220014 ,	0.889 ha
• Limnon cave (Kastria) , GR2320009 ,	4.628 ha
• Aliartos sinkhole (cave) , GR2410001 ,	1 ha
• Zesta Nera cave (Sidirokastro), GR1260007,	0.432 ha
• Poliphimos Cave , GR1130008 ,	10.93 ha
• Upper gallery, Panagopoula , GR2320007 ,	0.12 , ha
• Lower gallery, Panagopoula , GR2320007 ,	0.135 ha
• Agia Varvara mine, GR1110005,	0.03192 ha
• Tsoutouro mine , GR1110005 ,	0.0025 ha
• House (Samaria) , GR4340008 ,	0.0018 ha
Total area =	20.16 ha

6. Οι αριθμοί επισκεπτών που θα επηρεαστούν από το πρόγραμμα προκύπτουν ως ένα μικρό ποσοστό (0.05) της συνολικής επισκεψιμότητας των θέσεων του προγράμματος ([1] Limnon cave (60,000 visitors * 0.05) + Samaria gorge (140,000 visitors * 0.05) + Spilaiovarathro cave (100,000 visitors * 0.05) + other sites (estimated 10,000 visitors/stakeholders)*0.05] * 3 years until the end, and [2] Limnon cave (60,000 visitors * 0.05) + Samaria gorge (140,000 visitors * 0.05) + Spilaiovarathro cave (100,000 visitors * 0.05) + other sites (estimated 10,000 visitors/stakeholders)*0.05] * 5 years after.
7. Οι εκτιμήσεις των εκπαιδευμένων εθελοντών που θα χρησιμοποιήσουν τον εξοπλισμό του προγράμματος αποτελούν συντηρητική εκτίμηση με βάση τη μέχρι τώρα συμμετοχή εθελοντών στο πρόγραμμα [Trained volunteers using prototype devices = 50 until the end 150 five years after the end].
8. Άλλοι χρήστες των αποτελεσμάτων και των υποδομών του προγράμματος εκτιμούνται με βάση το ενδιαφέρον που έχουν δείξει μέχρι τώρα διάφορες κατηγορίες χρηστών.
- People use data from three early warning monitoring systems = officers from three management bodies 10 until the end 30 five years after the end
 - Students using prototype devices and early warning monitoring systems for academic research and education = 10 until the end 30 five years after the end.
 - Use of data systems and prototypes in information centers or project web site to raise public awareness = 1000 until the end 3000 after the end of the project.
9. Η τιμή είναι μια εκτίμηση των ατόμων που θα επηρεαστούν από την εφαρμογή της Δράσης C1 απλώς παρατηρώντας τις αντίστοιχες υποδομές διαβάζοντας τις πινακίδες ερμηνείας στις επιλεγμένες τοποθεσίες με μέσο όρο

τουλάχιστον 100 άτομα ανά τοποθεσία ανά έτος, για κάθε τοποθεσία έργου [Τρία (3) χρόνια από την εγκατάσταση υποδομών, πινακίδες ερμηνείας και πίνακες ανακοινώσεων έως το τέλος του έργου και 5 χρόνια μετά].

10. Παρουσίαση της εκπαιδευτικής βαλίτσας σε μαθητές, οι εκτιμήσεις περιλαμβάνουν έναν ενδεικτικό αριθμό σχολείων που μπορούμε να προσεγγίσουμε μέσω των ΚΠΕ για τρία χρόνια μέχρι το τέλος του προγράμματος και για 5 μετά το τέλος.
 - a. $(25 \text{ Primary schools} + 25 \text{ Secondary schools}) * (2 \text{ classes} * 15 \text{ pupils}) / 3\text{-year period (until the end)} = 4500$
 - b. $(20 \text{ Primary schools} + 20 \text{ Secondary schools}) * (2 \text{ classes} * 15 \text{ pupils}) / 5\text{-year period (5 years beyond)} = 6000$
11. Υπηρεσίες ή άλλοι αρμόδιοι οι ενδιαφερόμενοι (stakeholders) που αναμένεται να εμπλακούν στους στόχους του προγράμματος μέσω των δράσεων του μέχρι το τέλος και πέντε χρόνια μετά το τέλος του.
 - a. 5 Decentralized Administrations with project areas
 - b. 7 Decentralized Administrations of Greece
 - c. 8 management bodies of the selected Natura 2000 network
 - d. 36 management bodies of Greek Natura 2000 network
 - e. 1 Ministry of Environment and Energy
 - f. 1 The municipal operation "Cave of the Lakes" at Kastria Municipality of Kalavryta in Limnon Cave
 - g. 1 The municipal enterprise "Loutra POZAR Almopias" in Spilaiovarathro Cave
 - h. 1 The municipality of Maroneia-Sapon in Poliphimos Cave
 - i. Trained volunteers through project seminars that will monitor the cave habitat and report pressures, threats and other important data (citizen science).
12. Αλλαγή στάσης και συμπεριφοράς των εμπλεκόμενων με βάση τη συμμετοχή τους στις διημερίδες επί τον αριθμό των διημερίδων
 - a. Number of trained volunteers by the project (e.g. members of speleological groups, associations and organizations).
 - b. Indicator values: Approximately 50 participants (Stakeholders) to be influenced by the project per event ($50 * 16 = 800$)
 - c. Stakeholders influenced by the total project material, integrated guidelines and the infrastructures function 5 years after its end = 1000
13. Εκτιμήσεις επισκεψιμότητας του web site του προγράμματος με βάση στοιχεία από αντίστοιχα προγράμματα LIFE στην Ελλάδα
14. Εκτιμήσεις των δράσεων δικτύωσης του προγράμματος με βάση τις συμμετοχές σε συνέδρια και τους αναμενόμενους συμμετέχοντες.

- a. Members of other ongoing Life Nature Projects in EU / at least with 15 projects * 2 persons per project =30
- b. Presentations and posters in at least 5 international conferences and 3 nationals by the end of the program / at least 5 persons per conference = 40

15. Μέλη σπηλαιολογικών συλλόγων

- a. Past training seminars by the HISR and UoC = 30
- b. Participation in C5 action seminars of at least 10 people from each project area = 100
- c. Seminars by the project beneficiaries and trained volunteers using the material produced by the Project = 200 people

Αλληλογραφία: Διορθώσεις με την EMT και απαντήσεις του LIFE GRECABAT από 07/02/2020 [Answer]

Code	KPI Label	Comment and/or question	ANSWER
C.1.1	Overarching Context/Biogeographical regions	We should probably tick “Mediterranean” as the relevant biogeographic region for your project.	We agree that we could choose as one of the Overarching Contexts the Mediterranean biogeographical region but it is relatively unlikely that we can describe specific indicator values at this geographical level.
C.1.4	Ecosystems and their services	You chose “ <i>Sparsely vegetated land</i> ” as main ecosystem relevant for the project. Is it relevant to include other ecosystems involved in some project sites like Notia Naxos (sea inlets)Koryfos Orous, Evrou (woodlands) and LimniYliki (inland water bodies)	Since none of the available ecosystem categories fits to caves or other important roosting sites, we chose the category “Sparsely vegetated land” as this corresponds with the MAES matching between habitat codes and ecosystems (Habitat 8310 = “Sparsely vegetated land”, https://www.eea.europa.eu/data-and-maps/data/linkages-of-species-and-habitat). Furthermore habitat 8310 is described based on typical fauna species rather than characteristic plant species in other Habitat types. Other types of ecosystems such as sea inlets, woodlands and inland water bodies are not connected directly to the project sites although they exist in the wider Natura area.
C.2	Specific Context	You have decided to create 10 specific context names. Please be aware that in order to avoid double counting, the same overarching context, can only be linked once with the same indicator	We will take into consideration your comment.

		descriptor	
	Indicator values		
1.5	Project area/length	<p>1. Concerning the 1st Specific Context (Action Plans): explain the increase from 11,662 hectares at the end of the project to 100,000 hectares 5 years later.</p> <p>2. The action plans will not cover the total area of 180,388 ha of the project's Natura 2000 sites?</p> <p>3. Why there will be no progress from the end of the project to 5 years later for Specific Contexts 2-4 and 5 (important roosting sites, 8310 conservation status and selected bat species)</p>	<p>ANSWER 1: The first value (11,662.00 ha) refers to the project actions area, which is the the sum of surfaces of selected caves for the implementation of actions C, and includes a buffer zone around them (with an average radius of several hundred meters). While the second value (100,000.00 ha) refers to the national action plans implementation area. Thus, this increase is explained by the fact that implementation of the action plans at the beginning will apply at local level and at the end of the project at national level.</p> <p>ANSWER 2: The actions plans will cover all bat species and caves of Greece. The action plans will contribute conservation of selected species and habitat across the total area of Natura 2000 network, but the values refer to the specific areas around all known important roosting sites and caves of Greece (please see the respective comment box). We can calculate the total area of Natura 2000 network of Greece plus the important sites outside Natura 2000 network to substitute the above value (if you think this is better).</p> <p>ANSWER 3: The value used for the above mentioned contexts is an approximation of the size of caves and other artificial habitats of the project (please see the respective comment box). Thus, it is not expected the size (available area) of the protected habitats to change 5 years after the end of the project.</p>
1.6	Humans (to be) influenced by the project	Please give explanations for your estimated figures for the End and Beyond 5 years values	<p>ANSWER: As regards the <u>Specific Context “Early warning monitoring systems for habitat 8310 and important bat colonies”</u> the values used refers to persons whose lives were directly, positively impacted by main environmental actions of project. The number at the end and 5 years after the end of the project resulting as follows:</p> <ul style="list-style-type: none"> • Trained volunteers using prototype devices = 50 until the end 150 five years after the end • People use data from three early warning monitoring systems (officers from three management bodies) = 10 until the end and

			<p>30 five years after the end</p> <ul style="list-style-type: none"> • Students using prototype devices and early warning monitoring systems for academic research and education = 10 until the end and 30 five years after the end • Use of data systems and prototypes in information centers or project web site to raise public awareness = 1000 until the end 3000 after the end of the project <p>As regards the <u>Specific Context</u> “Protection, restoration and management of important roosting sites for bats” we used 3 categories of values a) Other persons influenced and b) Persons who may have been influenced via dissemination or awareness raising project-actions.</p> <p>For category (a) the number at the end and 5 years after the end of the project is estimation of persons that will be influenced by the implementation of Action C1 simply by noticing the respective infrastructures and reading the interpretation signs and notice boards on the selected sites. Thus, we assume that at the end of the project 100 persons will visit each site per year (100 persons * 10 sites* 3 years = 3000) and 5 years after the end of the project (100 persons * 10 sites* 5 years = 5000).</p> <p>For category (b) the number of persons who may have been influenced via dissemination or awareness raising project-actions, the numbers at the end and 5 years after the end of the project have estimated as follows:</p> <p><u>At the end of the project:</u> At least 50 schools (25 Primary + 25 Secondary) * (2 classes * 15 pupils) / 3-year period (until the end) = 4500 persons Visitors of Limnon cave (60,000 visitors * 0.05), Samaria gorge (140,000 visitors * 0.05), Spilaiovarathro cave (100,000 visitors * 0.05) and other sites (estimated 10,000 visitors/stakeholders)*0.05) = xx*3 years = 50000 persons</p> <p><u>5 years after the end of the project</u> At least 40 schools (20 Primary + 20 Secondary) * (2 classes * 15 pupils) / 5-year) = 6000 persons Visitors of Limnon cave (60,000 visitors * 0.05),</p>
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			<p>Samaria gorge (140,000 visitors * 0.05), Spilaiovarathro cave (100,000 visitors * 0.05) and other sites (estimated 10,000 visitors/stakeholders)*0.05) = xx*5 years = 60000 persons</p> <p><i>* 0.05 Assuming that a 5% of visitors will be affected by the program</i></p> <p>As regards the <u>Specific Context “Establishment of volunteer network”</u> the values used refers to persons with improved capacity or knowledge due to project actions for example members of speleological groups, associations and organizations. The number at the end and 5 years after the end of the project is approximate and will be updated during the project.</p> <p>As regards the <u>Specific Context “Change the attitude and behavior of stakeholders – Monitoring”</u> the values used refers to persons who changed their behaviour or practices due to the project actions. The numbers resulting as follows:</p> <p>At the end of the project: 50 participants – stakeholders * 16 seminars = 800 individuals 5 years after the end of the project= 1000</p>
7.3	Natural and semi-natural habitats	For ID 20224 (Protection, restoration and management of important roosting sites for bats) , you mention the figures 0-5-5 although in the GA you declare that 13 roosting sites will be restored. Please clarify	ANSWER: ID 20224 refers to artificial habitats (roosting sites) of the project which are not listed in Annex I Habitat Directive and are: 1 building, 2 old mines, 2 abandoned galleries. The roosting sites of the project are 13: 5 artificial (ID 20224) and 8 caves (ID 20223)
7.4	Wildlife species	1. For Compound ID 20225, you mention an increase of 7445 individuals (from the start to the end of the project) but you don't expect any progress 5 years later. Also no extension of the conservation status area beyond 5 years. Can you explain why? 2. Please check and provide clarifications concerning the % of protection of species	<p>ANSWER 1: The excessive increase shown in <i>Miniopterus schreibersii</i> is obviously incorrect, it will be corrected based on the reference values of Action A1.</p> <p>As the action A1 (Inventory of target species and habitat at the selected sites = Collection of reference data from literature and fieldwork.) has not completed yet, and we do not know the actual number of individuals using the caves and the artificial habitats of the project. The final population values as well as a better estimate of</p>

		<p>after the end of the project and beyond 5 years (see table below)</p>	<p>individuals expected 5 years after the end of the project will be inserted with the completion of the deliverable of action A1. The same we can say for the conservation status of the targeted species, noting here that the majority of them has unknown conservation status.</p> <p>The values entered in the fields are not final and will soon be corrected based on final estimates of A1 action. At this stage it would be preferable to put “provide values later” but it was not accepted by the web-tool.</p> <p>ANSWER 2: For more accurate and valid clarifications, the percentage of protection species after the end of the project and beyond 5 years will be presented after the completion of the deliverable of action A1. At this stage it would be preferable to put “provide values later” but it was not accepted by the web-tool.</p> <p>Please see also the comments: “The species are listed in Annex II Habitat Directive as well * The selected LIFE GRECABAT Annex II bat species are not available on the drop down list and therefore only selected as Annex IV. Final population values will be inserted with the completion of the deliverable of action A1.”</p> <p>In order to estimate the change in conservation status we need to know what is happening to the known national population and other parameters for calculating the conservation status of the species.</p> <p>The project will contribute e.g.:</p> <ul style="list-style-type: none"> - Improving the knowledge of the population at Project sites Action A1 - Recordings from other sites by trained volunteers and use of bat detectors and prototypes. - Protecting (end restoring the habitat of the) the percentage of bats national population on the project sites (Action C1 and C2) 																																
		<table border="1"> <thead> <tr> <th>Site</th> <th>Grant Agreement</th> <th>KPI e proje</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13-27 %</td> <td>59.</td> </tr> <tr> <td>2</td> <td>14-71 %</td> <td>0</td> </tr> <tr> <td>3</td> <td>5-7 %</td> <td>0</td> </tr> <tr> <td>4</td> <td>2-4 %</td> <td>0</td> </tr> <tr> <td>5</td> <td>19-95%</td> <td>0</td> </tr> <tr> <td>6</td> <td>5-11%</td> <td>0</td> </tr> <tr> <td>7</td> <td>3-7 %</td> <td>0</td> </tr> <tr> <td>8</td> <td>2-5 %</td> <td>0</td> </tr> <tr> <td>9</td> <td>0.5-0.7 %</td> <td>0</td> </tr> <tr> <td>10</td> <td>30-60 %</td> <td>300</td> </tr> </tbody> </table>	Site	Grant Agreement	KPI e proje	1	13-27 %	59.	2	14-71 %	0	3	5-7 %	0	4	2-4 %	0	5	19-95%	0	6	5-11%	0	7	3-7 %	0	8	2-5 %	0	9	0.5-0.7 %	0	10	30-60 %	300
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			<ul style="list-style-type: none"> - Protection and conservation through Action Plans and Micro Caves (Actions A3 & C3)
10.1.2	Governance / Supervisory / enforcement bodies involved	<p>1. For Cave micro-reserves, can you give some details on the significant progression 1-14-46 bodies involved (along with the 3 steps: start, end of project and beyond 5 years)</p> <p>2. The same for Actions Plans</p> <p>3. For each specific Context, which institution/body is involved at the project start?</p>	<p>(please see the respective comment box)</p> <p>ANSWER 1:</p> <ul style="list-style-type: none"> - Cave micro-reserves = 5 Decentralized Administrations with project areas (end, 5 years beyond) - 7 Decentralized Administrations of Greece (5 years beyond) - 8 management bodies of the selected Natura 2000 network (end, 5 years beyond) -36 management bodies of Greek Natura 2000 network (beyond 5 years) - 1 Ministry of Environment and Energy (start, end, 5 years beyond) <p>ANSWER 2: Actions Plans =</p> <ul style="list-style-type: none"> 1 Ministry of environment and Energy (start, end, 5 years beyond) 8 management bodies of the selected Natura 2000 sites (end, 5 years beyond) 36 management bodies of Greek Natura 2000 network (5 years beyond) 1 The municipal operation "Cave of the Lakes" at Kastria Municipality of Kalavryta in Limnon Cave (end, 5 years beyond) 1 The municipal enterprise "Loutra POZAR Almopias" in Spilaiovarathro Cave (end, 5 years beyond) 1 The municipality of Maroneia-Sapon in Poliphimos Cave (end, 5 years beyond) <p>ANSWER 3: in both cases is the Ministry of environment and Energy as a project partner</p>
11.1	Website	<p>1. Please explain why you chose this Specific Context</p>	<p>ANSWER 1: Because the website has created in order to inform the visitors for the protection,</p>

		<p>“ Protection, restoration and management of important roosting sites for bats” instead of “Awareness raising to the general public”</p> <p>2. We can consider that the website will be also accessible to individuals in all of Greece. So you can probably include EL as overarching context for 20235.</p> <p>3. In the note box, maybe useful to mention that you include in <i>general public</i> the stakeholders groups.</p>	<p>restoration and management of caves and bats of the Project. However, we can change it taking into account your comment.</p> <p>ANSWER 2: Your comment has been taken into account and will be incorporated if possible.</p> <p>ANSWER 3: The comment will be taken into account and we will mention in the note box that we include in general public the stakeholders groups.</p>
12.1	Networking	<p>1. Maybe useful to include the number of cave visitors in a new specific context “Awareness raising to the general public” to be closer to the estimation of 350,000 individuals impacted as mentioned in the Grant Agreement.</p> <p>2. Please explain why in the Specific Context “Change of attitude and behavior...” you mention the figures 0 -500 -1500 although 19,500 individuals are mentioned in the Grant Agreement KPI Table.</p>	<p>ANSWER 1: The comment will be taken into account and the number of cave visitors (when is available) will be included in the specific context “Awareness raising to the general public”.</p> <p>ANSWER 2: In the Grant Agreement KPI table stated that approximately 19500 people would be expected to be notified. Whereas the values given here are related to the number of members of interest groups (scientists, members of speleological organizations, etc.).</p>
14.1	Running cost/operating costs during the project and expected in case of continuation /replication/transfer after the project period	<ul style="list-style-type: none"> • Why have you included only 2 Specific Contexts (early warning monitoring and Actions Plans) with a total of 130,000+145,000= 275,000 euros. It should comprise all categories of expenses (1 270,000 euros) made during the project’s duration, <u>including expenditure not eligible for LIFE funding</u> 	<p>We will follow your advice and introduce also all the other specific contexts in this section.</p> <p>It is not quite clear what exactly to include in this section, e.g. after completion of the project many of the actions will continue to operate without any particular additional funding needs (Should they appear here? e.g. It is expected that (1) the reproduced 12 prototypes will be used by volunteers to monitor the selected and other important caves until the end of the project but also after the end of its lifetime. (2) Integration of GRECABAT in information centers is expected to replicated or transferred to other contexts. (3) VR and application will replicated by other stakeholders managing show caves. (4) The specifications for e.g. cave gating are expected</p>

			to be adopted by the Ephorate of Paleanthropology and Speleology. (5) Good practices are expected to be adopted by a key stakeholders.).
14.3	Future funding	Please clarify if the awareness raising and conservation actions in Natura 2000 sites are included in the Actions Plans. Or should you propose to define other related Specific Contexts.	It is clear that not all of this is included in this estimate (but mainly the restoration of inappropriate cave gating in a national level) and other specific contexts will probably need to be added. The problem is that is being asked to estimate the cost e.g. for the implementation of Action Plans that are still being prepared, which is sure to lead to a wrong estimate.
14.4.3	Entry in new geographic areas	You are proposing Cyprus as new geographic area. Maybe some project dissemination activities could be added in the Balkans area (Bulgaria).	Answer: We will add Bulgaria and probably other Balkan countries if it is possible to import more than one country (per specific context) in this section.

Προτάσεις δεικτών από την πρόταση του προγράμματος:

(α) Expected at the end of the project

Improved Nature, Species and Biodiversity	Habitats	Number of multi-species bat roosting sites protected and restored	13 colonies:	100% change (currently, in Greece there are no bat roosts under proper management)	The habitat of thirteen (13) multi-species colonies (in eight (8) caves (6 not open to the public (8310), 2 touristic), two (2) mines, two (2) concrete tunnels/galleries and one(1) building) will be restored, improved and protected, securing the conservation of the extant colonies as well as potentially attracting more bat species and/or individuals.
				26% of the 50 most important Greek bat roosts, ca. 50% of those in NATURA2000 areas	All 13 sites are missing conservation practices and are facing a number of pressures and threats The selected sites are ranked among the 50 most important bat roosts in Greece (25 of those 50 are in NATURA2000 areas).

	Habitats	Number cave micro reserves designated as wildlife refuges	5 caves	100% change Please explain reference data	At least 5 micro reserves will be designated, based on documentation of C3 action
	Wildlife Species	Number of threatened species in improved or secured status	12 species (10 Annex II & 2 Annex IV)	100% protection of target colonies (currently, they are not under proper management) protection of 0.5 to 95% of national populations of target bat species (currently, in Greece there are no bat roosts under proper management - see explanations)	For most of the 10 target bat species, an important percentage of their national populations will be protected: <i>Miniopterus schreibersii</i> : 13% - 27% <i>Myotis blythii</i> : 14% - 71% <i>Myotis capaccinii</i> : 5% - 7% <i>Myotis emarginatus</i> : 2% - 4% <i>Myotis myotis</i> : 19% - 95% <i>Rhinolophus blasii</i> : 5% - 11% <i>Rhinolophus euryale</i> : 3% - 7% <i>Rhinolophus ferrumequinum</i> : 2% - 5% <i>Rhinolophus hipposideros</i> : 0.5% - 0.7% <i>Rhinolophus mehelyi</i> : 30% - 60% These calculations are based on the min and max national values estimated during the National Monitoring Program Additionally, the only significant colonies (with several hundreds of individuals) of the Annex IV species, <i>Myotis nattereri</i> & <i>Eptesicus serotinus</i> will be protected.

Wildlife Species	Number of bats protected through the actions of the project	16,980 individuals	100% protection of target colonies (currently, they are not under proper management) Protection of 0.5 to 95% of national populations of target bat species (currently, in Greece there are no bat roosts under proper management - see explanations)	Ten (10) bat species refer to Annex II(16,090 individuals) and two (2) bat species refer to Annex IV (890 individuals) will be protected through the project's actions. These estimates are based on surveys performed on the project's sites in 2006 (2 sites) and in 2014, 2015.
Wildlife Species	Number of bats protected from inappropriate fencing induced injuries	4330 individuals from 9 species in 2 caves	100% change (all present bats are susceptible to be injured) Protection of 0.8 to 60% of national populations of target bat species from inappropriate fencing induced injuries	Limnon cave (1900 individuals) + Polyphimos cave (2430 individuals) <i>Miniopterus schreibersii</i> : 4 - 10% <i>Myotis blythii</i> : 0.8 - 4% <i>Myotis capaccinii</i> : 3 - 4% <i>Myotis emarginatus</i> : 1 - 3% <i>Myotis myotis</i> : 9 - 45% <i>Rhinolophus blasii</i> : 5 - 11% <i>Rhinolophus euryale</i> : 5 - 11% <i>Rhinolophus ferrumequinum</i> : 1 - 3% <i>Rhinolophus mehelyi</i> : 30 - 60% These calculations are based on the min and max national values estimated during the National Monitoring Program
Wildlife Species	Number of caves monitored	27 caves	100% change Please explain reference data	C2 actions 3 automatic systems + C2 prototype 12 *2 by volunteers
Alien Species	Reduction of invasive alien species	Population /ha Population /m3	% change	

Economic Performance, Market Uptake, Replication	Employment	Jobs created	FTE	% change	(a) The project will invest in infrastructures on project sites where workers from the project areas will work. (b) The accommodation and restaurants of the wider project area will be used. (c) The consumables of GRECBAT events for catering will be given to local businesses with preference for traditional local products. In this way, it is expected that jobs will be given or maintained in project areas during the program.
	Replication / Transfer	N . of replication / Transfer	NA	not applicable	It is expected that (1) the reproduced 12 prototypes will be used by volunteers to monitor the selected and other important caves until the end of the project but also after the end of its lifetime. (2) Integration of GRECBAT in information centres is expected to replicated or transferred to other contexts. (3) Augmented reality demo end application will replicated by other stakeholders managing show caves. (4) The specifications for e.g. cave gating are expected to be adopted by the Ephorate of Paleontology and Speleology. (5) Good practices are expected to be adopted by key stakeholders.
	Market uptake	Expected revenues	Euros	not applicable	
		market size in number of customers	customers	not applicable	
	Reduction of cost		in Euros / unit	% change	
	Payback Time	capital invested / net income	in years	not applicable	

Communication, dissemination, awareness rising	Awareness raising	Number of entities/individuals reached/made aware	350,000 individuals	100% change (currently, public servants, stakeholders and the broad public lack knowledge on the natural history of bats and the ecosystem services they provide)	[Limnon cave (60,000 visitors * 0.05) + Samaria gorge (140,000 visitors * 0.05) + Zesta Nera springs (1,000,000 visitors * 0.05) + other sites (estimated 10,000 visitors/stakeholders)] * 5 years
	Website	Number of hits	30,000 hits	100% change (see above)	Estimation based on visitor numbers at websites of other LIFE projects in Greece
	Educational kit	Number of entities/individuals reached/made aware	5,000 individuals	100% change (see above)	(30 Primary schools + 25 Secondary schools) * (3 classes * 30 pupils) / 5-year period
	Behavioural change	Number of entities/individuals changing behaviour	38,500 individuals	100% change (see above)	10% of all visitors and pupils involved during the current 5-year period

(β) Anticipated 5 years after the project's end:

Improved Nature, Species and Biodiversity	Habitats	Number of multi-species bat roosting sites protected and restored	13 colonies	100% change Please explain reference data	The habitat of thirteen (13) multi-species colonies (in eight (8) caves, two (2) mines, two (2) concrete tunnels/galleries and one(1) building) will be restored, improved and protected, securing the good conservation status of the extant colonies as well as potentially attracting more bat species and/or individuals.
	Habitats	Number cave micro reserves designated as wildlife refuges	3 caves	60 % change Please explain reference data	3 more micro reserves will be designated, based on documentation of C3 action

	Wildlife Species	Number of threatened species in improved or secured status	12 species (10-II selected + 2-IV)	100% change Please explain reference data	10 target bat species: <i>Rhinolophus hipposideros</i> , <i>Rhinolophus ferrumequinum</i> , <i>Rhinolophus euryale</i> , <i>Rhinolophus mehelyi</i> , <i>Rhinolophus blasii</i> , <i>Myotis blythii</i> , <i>Myotis myotis</i> , <i>Myotis capaccinii</i> , <i>Myotis emarginatus</i> , <i>Miniopterus schreibersii</i> . + also benefit 2 Annex IV species (<i>Myotis nattereri</i> , <i>Eptesicus serotinus</i>).
	Wildlife Species	Number of bats protected from inappropriate fencing induced injuries	1,500 individuals	100% change Please explain reference data	Limnon cave (500 individuals) + Polyphimos cave (1,000 individuals)
	Wildlife Species	Increase in numbers of bats protected through the actions of the project	17,830-18,680 individuals	5-10% increase	Estimates are based on currently available figures and are likely to change, following the implementation of Action A1.
	Wildlife Species	Number of caves monitored	27 caves	100% change Please explain reference data	C2 actions 3 automatic systems + C2 prototype 12 *2 by volunteers
	Alien Species	Reduction of invasive alien species	Population/ha Population/m ³	% change	Please limit to a maximum of 3 most relevant alien species targeted by your proposal
Economic Performance, Market Uptake,	Empl oyment	Jobs created	FTE	% change	
	Replication / Transfer	N . of replication / Transfer		not applicable	Please specify, if applicable, in how many countries / sectors /entities /regions replication/transfer takes place.

Communication, dissemination, awareness rising	Awareness raising	Number of entities/individuals reached/made aware	175,000 individuals	50% change Please explain reference data	[Limnon cave (60,000 visitors * 0.05) + Samaria gorge (140,000 visitors * 0.05) + Zestanera springs (1,000,000 visitors * 0.05) + other sites (estimated 10,000 visitors/stakeholders)] * 5 years
	Website	Number of hits	15,000 hits	50% change Please explain reference data	Estimation based on visitor numbers at websites of other LIFE projects in Greece
	Educational kit	Number of entities/individuals reached/made aware	5,000 individuals	100% change Please explain reference data	(30 Primary schools + 25 Secondary schools) * (3 classes * 30 pupils) / 5-year period
	Behavioural change	Number of entities/individuals changing behaviour	19,500 individuals	85% change Please explain reference data	10% of all visitors and pupils involved during the current 5-year period