

E.4 Logical Framework Matrix – LFM

Wider Objective: <i>What is the general objective, to which the project will contribute?</i> To develop and improve knowledge/skills/technical resources of Partner Country HEIs in ecological monitoring and freshwater bioassessment in line with national and EU policies	Indicators of progress: <i>What are the key indicators related to the wider objective?</i> <ul style="list-style-type: none"> • Graduated students competent for effective biomonitoring and aquatic bioassessment in WB partner countries • Increased request for educational trainings from public and private environmental monitoring sector • The increase in quality of regional cooperation in education and research regarding ecological monitoring and aquatic bioassessment 	How indicators will be measured: <i>What are the sources of information on these indicators?</i> <ul style="list-style-type: none"> • HEIs annual reports on students' graduation • HEI's annual reports on number of realized trainings for professionals in environmental monitoring sector 		
Specific Project Objective/s: <i>What are the specific objectives, which the project shall achieve?</i> <ul style="list-style-type: none"> • Develop and implement the advanced master curricula in Ecological Monitoring and Aquatic Bioassessment in WB 	Indicators of progress: <i>What are the quantitative and qualitative indicators showing whether and to what extent the project's specific objectives are achieved?</i> <ul style="list-style-type: none"> • At least 26 novel master courses (M2 2021) and learning materials developed by M8 2021, 	How indicators will be measured: <i>What are the sources of information that exist and can be collected? What are the methods required to get this information?</i> <ul style="list-style-type: none"> • Quality reports, reports on purchased equipment, software and library units; interim and final reports 	Assumptions & risks <i>What are the factors and conditions not under the direct control of the project, which are necessary to achieve these objectives? What risks have to be considered?</i> <ul style="list-style-type: none"> • Duration of the accreditation process 	How the risks will be mitigated: Open Days will be organized by all PC HEIs to provide an insight into studying at the University and to attract prospective students
HEIs in line with the Bologna requirements and national accreditation standards <ul style="list-style-type: none"> • Develop and implement 14 LLL courses for the environmental monitoring sector in line with EU Water Framework Directive in WB PC. • Equip 7 laboratories for ecological monitoring and aquatic bioassessment • Develop regional academic ECOBIAS network in order to organise and promote regional cooperation in Ecological Monitoring and Aquatic Bioassessment. 	and implemented by M12 2022 <ul style="list-style-type: none"> • At least 14 novel LLL courses (M2 2021) and training materials developed by M8 2021, and implemented by M10 2022 • At least 68 members of WB PC teaching staff trained M8 2021 • 7 new laboratories for EMAB designed and equipped by M12 2020 • 4 master curricula in EMAB developed, implemented and accredited/approved by M4 2022 • At least 28 students enrolled in new master curricula by M9 2021 • At least 17 participants from the environmental monitoring sector in WB PC trained by M10 2022 	available on project website and platform <ul style="list-style-type: none"> • Reports on up-date equipped laboratories • Project web site • Websites of project partners • Report on WB PC teaching staff trained available on project website • Acts of official accreditation/approval of master curricula • Project publications with results • Report on number of students enrolled • Report on number of professionals trained 	<ul style="list-style-type: none"> • Personal motivation of each participant in program • Political and economic stability in the Western Balkans region • Delay in Subcontracting • Hydrological regime and water level fluctuations during field theme-based training events • Cooperation between HEIs and stakeholders in public and private environmental monitoring sector 	Round tables will be organised in each PC HEI to create proactive strategy with stakeholders in the field of ecological monitoring and bioassessment Only HEIs from the PCs which were highly motivated for MSc accreditation were selected for PC Consortia Training events are distributed in almost one-year period in order to carry out all field trainings successfully, which might be influenced by weather and hydrological conditions

<p>curricula and LLL courses in EMAB</p> <ul style="list-style-type: none"> 2.2. Report on courses design and syllabus for ECOBIAS curricula and LLL trainings 2.3. Report on equipping of laboratories 2.4. Teaching staff training events 2.5. Learning materials and field protocols for ECOBIAS courses 2.6. Report on Master curricula Accreditation/ Approval 2.7. Report on Master curricula implementation 2.8. Report on LLL courses Accreditation/ Approval 2.9. Report on LLL courses implementation 	<ul style="list-style-type: none"> Report on EMAB in PCs by M3 2020 Report on existing curricula EMAB in PgC and PC HEIs by M3 2020 Report on labour market needs relevant to EMAB in PCs by M5 2020 Report on aims, specific competencies and learning outcomes of ECOBIAS master curricula in EMAB by M8 2020 Report on courses design and syllabus for ECOBIAS curricula by M2 2021 Report on equipping of laboratories by M12 2020 Teaching staff training events by M8 2021 ECOBIAS learning materials and field protocols by M8 2021 Report on Master curricula Accreditation/ Approval by M4 2022 	<ul style="list-style-type: none"> Attendance sheets List of developed master curricula, trainings and published materials Decision on approval/accreditation of MSc and LLL courses Evaluation reports on organised trainings for ECOBIAS teaching staff and Summer School Created training material Reports on organised trainings for professionals from EMAB sector Training attendance sheets Report on trainings' participants feedbacks available on ECOBIAS website Dissemination and Exploitation plan, Quality and Assurance Plan, Project management and reporting guidelines adopted and available online 	<ul style="list-style-type: none"> Adequate language skills of students and professionals Regular financial flow Hydrological regime and water level fluctuations during field theme-based training events 	<ul style="list-style-type: none"> Purchasing of literature, software and laboratory equipment, installation and activation will be managed in 7 month period
	<ul style="list-style-type: none"> ECOBIAS-NET Academic Network established by M12 2021 55 students and 22 professionals participated in Summer School DNA Metabarcoding at University of Tuzla 			
<p>Outputs (tangible) and Outcomes (intangible): Please provide the list of concrete DELIVERABLES - outputs/outcomes (grouped in Workpackages), leading to the specific objective/s.:</p> <ul style="list-style-type: none"> 1.1. Report on EMAB in PgCs 1.2. Report on EMAB in PCs 1.3. Report on existing curricula EMAB in PgC and PC HEIs 1.4. Report on labour market needs relevant to EMAB in PCs 2.1. Report on aims, specific competencies and learning outcomes of ECOBIAS master 	<p>Indicators of progress: What are the indicators to measure whether and to what extent the project achieves the envisaged results and effects?</p> <ul style="list-style-type: none"> Kick-Off meeting held in M1 2020 Web site and promotional materials created by M5 2020 Guidelines on the project management and reporting (M2 2020), the Quality and Assurance Plan (M2 2020) and Project dissemination plan (M4 2020) created by Report on EMAB in PgCs by M3 2020 	<p>How indicators will be measured: What are the sources of information on these indicators?</p> <ul style="list-style-type: none"> Project web site and platform developed and regularly updated Official call for tender published in media Equipment specifications, user guides, documentation in ECOBIAS partner HEIs Laboratory equipment registers Reports on teaching staff trainings available on project website Workshop and meetings reports 	<p>Assumptions & risks What external factors and conditions must be realised to obtain the expected outcomes and results on schedule?</p> <ul style="list-style-type: none"> Delay in the delivery of the laboratory equipment, software or literature units Political and economic stability in the region, no visa regime Sufficient number of students interested in enrolment to courses Sufficient number of professionals in enterprises concerning EMAB Successful accreditation of programmes 	<p>How the risks will be mitigated:</p> <ul style="list-style-type: none"> Open Days will be organized by all PC HEIs to provide an insight into studying at the University and to attract prospective students Round tables will be organised in each PC HEI to create proactive strategy with stakeholders in the field of ecological monitoring and bioassessment Only HEIs from the PCs which were highly motivated for MSc accreditation were selected for PC Consortia Training events are distributed in almost one-year period in order to carry out all field trainings successfully, which might be influenced by weather and hydrological conditions

<ul style="list-style-type: none"> • 2.10. Report on LLL and MSC courses optimisation • 3.1. Report on establishment of regional academic network in EMAB • 3.2. ECOBIAS internet platform created • 4.1. Quality Assurance board meeting minutes • 4.2. Quality and Assurance Plan created • 4.3. Minutes of the meetings • 4.4. Report on the inter-project coaching • 4.5. Report on the external quality evaluation • 4.6. Report on the financial audit • 5.1. Project dissemination plan created 	<ul style="list-style-type: none"> • Report on Master curricula implementation by M6 and M11 2022 • Report on LLL courses Accreditation/ Approval by M4 2022 • Report on LLL courses implementation by M10 2022 • Report on LLL and MSc courses optimisation by M8 2022 • Report on establishment of regional academic network in EMAB by M11 2021 • ECOBIAS internet platform created by (M12 2021) • Quality Assurance Board meeting and Management Board Meeting minutes delivered in time (1 per term) • Inter-project coaching reports delivered (at least 2 contacts with other 	<ul style="list-style-type: none"> • Designed and printed promotional materials and social and digital media marketing • Documented mass media and social network disseminations • Meeting minutes • Reports on organised info days and roundtables • Financial management records • External quality assessment report • External financial report • Project interim and final reports created and available on project platform • Partner interim and final financial reports • Project documentation on Steering Committee, Project Management Committee and Quality Assurance Board work 		
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<ul style="list-style-type: none"> • 5.2. Project site created and updated • 5.3. Promo material designed, printed, recorded and published • 5.4. 3 Workshops at PC HEIs • 5.5. 21 Round tables at PC HEIs • 5.6. 21 Open days at PC HEIs • 5.7. DNA Metabarcoding Summer School • 5.8. ECOBIAS Conference • 6.1. Kick-Off meeting minutes • 6.2. Guidelines on the project management and reporting • 6.3. Project correspondence • 6.4. Minutes of the meetings 	<ul style="list-style-type: none"> • similar projects) (M12 2020, M11 2021) • Report on the external quality evaluation delivered by M6 2021 • Report on the financial audit delivered by M6 2021 • 3 Workshops at PC HEIs organised by M12 2020, M10 2021 • 1 Summer School by M8 2021 • 14 Round tables at PC HEIs organised by M8 2021, M5 2022 • 21 Open days at PC HEIs organised by (M5, 9 2021; M5 2022) • ECOBIAS Conference organised by M11 2022 • Interim (M6 2021) and final reports submitted by M12 2022 	<ul style="list-style-type: none"> • Official correspondence with the National Erasmus+ Offices • Official correspondence with EACEA 		
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<ul style="list-style-type: none"> • 2.2. Development of courses design and syllabus for ECOBIAS curricula LLL • 2.3. Purchasing of literature, software and laboratory equipment, installation and activation • 2.4. Theme-based training of teaching staff in EMAB methods • 2.5. Preparation of learning materials and field protocols • 2.6. Accreditation/ approval of MSc curricula • 2.7. Implementation of developed MSc curricula • 2.8. Accreditation/ approval of LLL courses • 2.9. Implementation of LLL courses • 2.10. Optimization of MSc and LLL courses 	<ul style="list-style-type: none"> • Equipment: 212,424 • Travel Cost 78,165 (Students -5700, Staff 72,465) *Cost of Stay: 247,380 EUR (Students - 9900 EUR; Staff - 237,480 EUR) • Subcontracting- 35,000: External expert for project quality evaluation, External expert for financial audit, Design and printing of promotional material, Translating, ECOBIAS internet site development and development of ECOBIA-NET platform 		<ul style="list-style-type: none"> • Hydrological regime and water level fluctuations during field theme-based training events 	<p>influenced by weather and hydrological conditions</p> <ul style="list-style-type: none"> • Purchasing of literature, software and laboratory equipment, installation and activation will be managed in 7 month period
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<p>based on the feed-back of enrolled participants</p> <ul style="list-style-type: none"> • 3.1. Establishment of regional academic network in EMAB • 3.2. Establishment of ECOBIAS-NET platform • 4.1. Establishment of QA board • 4.2. Development of QA Plan • 4.3 Regular QA Board meetings • 4.4. Inter-project coaching • 4.5. External evaluation of the project • 4.6. External financial control • 5.1. Preparing project dissemination plan • 5.2. Setting and updating of Project web site 				
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<ul style="list-style-type: none"> • 5.3. Design, printing, recording and publishing promo material • 5.4. Workshops at Partner Country HEI • 5.5. Round tables with stakeholders • 5.6. Open day at each Partner Country HEI • 5.7. Summer School in DNA Metabarcoding • 5.8. The ECOBIAS Conference • 6.1. Establishment of management board and Kick-off meeting • 6.2. Development of guidelines on the project management and reporting • 6.3. Day-to-day coordination of project activities • 6.4. Regular SC and PM meetings 				
<ul style="list-style-type: none"> • 6.5. Submission of interim and final reports 				