

LOGICAL FRAMEWORK MATRIX – LFM

<p>Wider Objective: <i>What is the overall broader objective, to which the project will contribute?</i></p> <ul style="list-style-type: none"> • To improve regional resilience to hazards and capability for regional cooperation in risk prevention and response and to ensure national professional resources and regional capacities in aim to build regional-based disaster preparedness and a culture of safety and resilience at all levels according to EU Integration Strategies and National relevant strategies 	<p>Indicators of progress: <i>What are the key indicators related to the wider objective?</i></p> <ul style="list-style-type: none"> • At least 50 largest municipalities in the region employing a trained professional with relevant knowledge in Disaster Risk Management and Fire Safety Engineering (DRM&FSE) • Relevant number of DRM&FSE experts with defined EQF/NQF involved in EU integration process and activities • WB Countries fully participate in EU Civil Protection Mechanism • Relevant regional strategies made in accordance of EU frameworks relevant for disaster risk reduction and fire safety and resilience 	<p>How indicators will be measured: <i>What are the sources of information on these indicators?</i></p> <ul style="list-style-type: none"> • Annual reports on number of graduates, trainers and employees educated and trained in DRM&FSE • Public Services official employment records • WBC European Integration Offices official records on employment and engagement of experts • Official publications of National and EU documents and agreements in the field of disaster risk reduction and fire safety and resilience 	
<p>Specific Project Objective/s: <i>What are the specific objectives, which the project shall achieve?</i></p> <ul style="list-style-type: none"> • Modernization of Disaster Risk Management and Fire Safety Engineering master study programme (P1) and development and implementation of new Master programmes/modules (P2-P6) in WBC partners HEIs, according to regional needs and contemporary EU trends. • Development and implementation of Disaster Risk Management and Fire Safety Engineering Doctoral study programme (P1) in accordance to available resources, regional needs and European partners' expertise, in 	<p>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></p> <ul style="list-style-type: none"> • Six modernized/developed and implemented DRM&FSE master programs in WBC (2nd and 3rd project year) • Developed and implemented PhD Program in WBC (P1) in 3rd project year • Improved teaching skills and methods • Improved teaching materials and tools • At least 120 students enrolled in DRM&FSE master programs in 2nd and 	<p>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></p> <ul style="list-style-type: none"> • Data from WBC accreditation bodies • Official records WBC HEIs • 6 educational ICT-based laboratories with interoperability capabilities • Open educational resource/ K-FORCE On-line library (publications in EN, SRB, AL, B&H) • K-FORCE Glossary of DRM&FSE key words and terms (EN, SRB, AL, B&H) • Number and quality of new teaching materials developed and published • WBC HEIs Thesis Committee Records • Educational internal quality survey 	<p>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></p> <ul style="list-style-type: none"> • Assumptions: • Adoption of NQF by WB Countries • Accreditation body will start with accreditation process for Vocational Master in Serbia • Political and economic stability in Balkan region • Support from all partners involved in the project • Students interested and motivated in subject and research • Professionals interested to

<p>aim to ensure regional capacities and sustainable education and research in the field.</p> <ul style="list-style-type: none"> • Continuous professional development of employees in DRM&FSE sector in WBC through creation and implementation of certified LLL courses for practitioners. 	<p>3rd project year</p> <ul style="list-style-type: none"> • At least 12 students from WBC enrolled in PhD study program in 3rd project year • Developed and certified set of LLL courses for practitioners • At least 400 trained professionals (2nd and 3rd project year) 	<p>reports of HEIs graduates</p> <ul style="list-style-type: none"> • Educational internal quality survey reports of HEIs students • Official records of institutions where practitioners are employed • Decision on certification and number of certified LLL courses • Peer reviews of curricula and LLL courses • Project reports, newsletters, e-bulletins 	<p>participate in the LLL courses</p> <ul style="list-style-type: none"> • Risks: • Delays in the implementation of the provisions of the Law on HE on Vocational Master in Serbia • Duration time of accreditation processes and regular work of accreditation bodies for MPs and PhD • Natural hazards, fires and extreme weather conditions
<p>Outputs (tangible) and Outcomes (intangible):</p> <ul style="list-style-type: none"> • Please provide the list of concrete DELIVERABLES - outputs/outcomes (grouped in Workpackages), leading to the specific objective/s.: <p>1.1 Report on DRM&FSE MPs in EU and WBC</p> <p>1.2 Report on WBC needs for DRM&FSE MPs and learning outcomes</p> <p>1.3 Presentation of developed DRM&FSE MPs Curricula</p> <p>1.4 Equipment procured, installed and activated, local staff trained in its usage</p> <p>2.1 Report on WB needs and EU trends in DRM&FSE PhD</p> <p>2.2 Report on teaching staff resources for MPs and PhD</p> <p>2.3 Report on compared PhD models and curricula</p> <p>2.4 Presentation of developed PhD Curriculum</p> <p>2.5 List of research PhD themes</p> <p>3.1 Study visits reports</p> <p>3.2 Report on agreed modalities of</p>	<p>Indicators of progress:</p> <p><i>What are the indicators to measure whether and to what extent the project achieves the envisaged results and effects?</i></p> <ul style="list-style-type: none"> • WP1 • 4 reports compiled, published • WBC needs survey, sample of 300 students and professionals • Learning outcomes defined and published • DRM&FSE MPs Curricula published • Equipment purchased and introduced in inventory books and number of local teaching staff trained in using it • • WP2 • 5 reports compiled, published • DRM&FSE PhD Curriculum published • List of research PhD themes written, published and distributed to prospective candidates and on Website • 	<p>How indicators will be measured:</p> <p><i>What are the sources of information on these indicators?</i></p> <ul style="list-style-type: none"> • Project progress reports, number of paper copies distributed, number of downloads from site • Equipment inventory books • Equipment specification and user guides • Report on number of trained local staff • K-FORCE Web site, social network profiles and pages visits and document downloads • Programmes, galleries and media reports on visits • Newsletters, e-bulletins, newspapers • Evaluation of training • Number of textbooks published • Official HEIs records • Number of registered users on the flexible ITC learning platform • K-FORCE e-library visits and document downloads 	<p>Assumptions & risks:</p> <p><i>What external factors and conditions must be realised to obtain the expected outcomes and results on schedule?</i></p> <ul style="list-style-type: none"> • NQF will be adopted timely • Adequate response of key stakeholders to questionnaires and call for interviews and their representation • Available relevant statistic data • Availability of equipment at the market • Regular work of bodies for accreditation • Adequate and regular financial flow • Timely procedures for VAT exclusion • Technical problems (internet connection problems, software problems, timely translation of all publications) • Well-defined internal evaluation procedures and protocols in partner HE institutions; administrative staff involved in accreditation material

<p>using ICT for b-learning</p> <p>3.3 WBC teaching staff trained on DRM&FSE subjects and student-centred teaching skills</p> <p>3.4 b-learning materials for MPs and PhD developed</p> <p>3.5 Report on evaluation of MPs and PhD learning material, fine-tuned MPs and PhD</p> <p>4.1 Accredited MPs</p> <p>4.2 Students enrolled on master studies</p> <p>4.3 The flexible ICT learning platform activated on time</p> <p>4.4 Lectures held by guest lecturers</p> <p>4.5 Report on 1st cohorts' progress and satisfaction of students and staff</p> <p>5.1 Accredited PhD programme</p> <p>5.2 Students enrolled on PhD</p> <p>5.3 b-learning PhD material delivered</p> <p>5.4 Report on 1st cohorts progress and satisfaction of students and staff</p> <p>6.1 Report on WBC needs for LLL courses</p> <p>6.2 Report on defined LLL outcomes</p> <p>6.3 Glossary published</p> <p>6.4 Selected learning material adapted for LLL purposes</p> <p>6.5 LLL courses delivered to professionals in blended way</p> <p>7.1 Quality Assurance mechanisms and procedures developed</p> <p>7.2 The pools for different types of activities created</p> <p>7.3 Learning material peer-reviewed</p>	<ul style="list-style-type: none"> • WP3 • 8 reports compiled, published • 4 study visits organized and reports disseminated at home institutions • At least 35 WBC TS trained • At least 1 script and 10 presentations/webinars per developed/ modernised subject • At least 1 lecture/tutorial per subject held by professionals - practical case studies • 6 textbooks by PA published • Number of new subjects, lectures, students, guest lecturers; feedback polls; students' exam marks • • WP4-WP5 • 9 reports comiled, published • 6 Accredited MPs and 1 PhD programme • 120 students enrolled on MPs and 12 on PhD • 150 ICT platform users • 60 authorized guest lectures and presentations held • 5 case studies for tutorials and project work issued • Polls on student and staff satisfaction processed • • WP6 • 5 reports compiled • Immpoved proffesional capacity and interoperability 	<ul style="list-style-type: none"> • Students' satisfaction survey reports • Mailing list of prospective students and of potential LLL attendees • K-FORCE Glossary published in pdf and printed in 200 copies • Signed agreement about long-term cooperation between HEIs and non-academic partners at WBC • Satisfaction survey of new learning material quality reviewers • Satisfaction survey of the glossary external reviewers • Yearly reports about dissemination activities • Attendance lists from events and courses • Number of HEIs guidebooks for enrolment distributed on HE fairs • 3 Symposia Proceeding books published in PDF (distributed via USBs) • Designed and printed project promotion material • Number of delivered LLL courses certificates • Minutes from meetings and formal HEIs decisions • Report on implementation of the PM plan, procedures and the Risk Plan • Partner expenses reports • Project Interim Report • External financial audit report • Final report to EACEA • Coordinators official project files and records 	<p>preparation may be overburdened with tasks related to the mandatory reaccreditation procedure for other existing study programs at the partner HE institutions</p> <ul style="list-style-type: none"> • Willingness of media to cover visibility activities • Adequate attendance at events • Technical problems with WEB page and other technical issues that have to be resolved in preparation of printing and promotional material could cause delays in dissemination plan • Creating structures for management of the project are not fully relaying on the bureaucratic procedures; Members of the Steering Committee and working groups are overburden with their other daily activities • Good project management • Good financial management
---	--	--	---

<p>7.4 External review of the Glossary</p> <p>8.1 Project dissemination plan created</p> <p>8.2 K-FORCE Web site developed, maintained and promoted</p> <p>8.3 K-FORCE e-library open and maintained</p> <p>8.4 Media, enrolment and LLL campaigns executed</p> <p>8.5 3 K-FORCE Symposia organized</p> <p>9.1 Minutes of the meetings</p> <p>9.2 PM plan, procedures and Risk Plan adopted</p> <p>9.3 Reports on Inter project coaching</p> <p>9.4 Project activities reports and Partner expenses reports</p>	<ul style="list-style-type: none"> • 18 LLL courses delivered • 400 trained professionals • 500 professionals accessing the ICT platform • • WP7 • 4 reports compiled • Number of QA mechanisms and developed procedures • At least 10 polls • Learning material Review • Glossary Review • • WP8 • 5 reports compiled • Number of Website visits and documents downloaded • 6 media campaigns • 60 topics presented, published in 3 Symposia Proceedings • Total of 500 participants on all events • Number of brochures distributed on enrolment events • Number of informed stakeholders about LLL courses • • WP9 • 5 reports compiled • 4, 8, 7 and 9 mins of the Consortium, WB Board, SC and WG meetings, respectively • PM plan, procedures and Risk Plan implementation 	<ul style="list-style-type: none"> • Regular PMT memoranda on timely implementation of activities 	
---	--	--	--

	<ul style="list-style-type: none"> • Inter project coaching reports • Smooth and timely project implementat 		
<p>Activities: <i>What are the key activities to be carried out (<u>grouped in Workpackages</u>) and in what sequence in order to produce the expected results?</i></p> <ul style="list-style-type: none"> • 1.1 Analyse DRM&FSE MPs in EU and WBC • 1.2 Analyse WBC needs for DRM&FSE MPs and learning outcomes • 1.3 Develop DRM&FSE MPs Curricula aligned with EU trends • 1.4 Procure, install and activate the equipment • 2.1 Assess WB needs and EU trends in DRM&FSE PhD • 2.2 Analyse WB teaching staff resources for MPs and PhD • 2.3 Compare PhD models and curricula in EU • 2.4. Develop PhD Curriculum • 2.5 Compile a list of research PhD themes, according to WB disaster trends • 3.1 Study visits to PR HEIs • 3.2 Analyse and agree on the modalities of using ICT for b-learning 	<p>Inputs: <i>What inputs are required to implement these activities, e.g. staff time, equipment, mobilities, publications etc.?</i></p> <ul style="list-style-type: none"> • WP1-WP2 (PREP): • Staff costs: 110,990 € • Number of staff days: 1,005 • P1: 145 P2: 82 P3: 92 • P4: 82 P5: 82 P6:82 • P7: 101 P8: 52 P9: 69 • P10: 63 P11: 67 P12: 30 • P13: 29 P14: 29 • • Equipment: 291,200 € • P1: 144,200 € P2: 29,400 € • P3: 29,400 € P4: 29,400 € • P5: 29,400 € P6: 29,400 € • • Equipment for MPs: • 60 PC Clients • 6 Outdoor handheld GPS GIS Mapping Data Collectors • 6 Handheld laser distance measurers • 6 Digital cameras • 60 Books, journals, e-books 		<p>Assumptions, risks and pre-conditions: <i>What pre-conditions are required before the project starts? What conditions outside the project's direct control have to be present for the implementation of the planned activities?</i></p> <ul style="list-style-type: none"> • WP1 • A: Available relevant information/statistic data • A:Equipment procured, installed and activated timely • R: Insufficient dedication of partners to project aims • R: Inadequate and irregular financial flow • R: Delay of procedures for VAT exclusion • • WP2 • A: Available relevant statistic data • R: Inadequate response of HEIs and target groups to polls • • WP3 • A: Best-suited staff is available and

<ul style="list-style-type: none"> • 3.3 Train the WB teaching staff on DRM&FSE topics and b-learning methodologies • 3.4 Develop b-learning materials for MPs and PhD • 3.5 Pilot the new MPs and PhD learning material, evaluation and fine tuning • 4.1 Accredite MPs • 4.2 Enrol the Master students • 4.3 Activate flexible ICT learning platform • 4.4 Selected MP lectures held by K-FORCE guest lecturers • 4.5 Evaluate the 1st cohorts' progress and satisfaction of students and staff • 5.1 Accredite the PhD programme • 5.2 Enrol the PhD students • 5.3 Selected PhD lectures held by K-FORCE guest lecturers • 5.4 Evaluate the 1st cohorts' progress and satisfaction of students and staff • 6.1 Analyse the WBC needs for LLL courses • 6.2 Define LLL outcomes according to EQF/NQFs • 6.3 Create K-FORCE Glossary • 6.4 Adapt selected learning material for LLL courses • 6.5 Deliver LLL courses in blended way to professionals • 7.1 Develop Quality Assurance mechanisms and procedures 	<ul style="list-style-type: none"> • 60 E-book readers • 6 Agent based evacuation simulation softwares • 24 Lap tops+external displays • • Equipment for PhD: • 2 Rack servers • 1 Outdoor handheld GPS GIS Mapping Data Collector • 1 Fire dynamics and smoke control software • 1 Digital Map of Serbia with database • 1 Hyphenated TGA-FTIR • 1 Unmanned Aerial Photogrammetric Vehicle with PC client • • WP3-WP6 (DEV) • Staff costs: 165,500 € • Staff days: 1,624 • P1: 279 P2: 129 P3: 129 • P4: 109 P5: 119 P6: 109 • P7: 92 P8: 151 P9: 36 • P10: 279 P11: 65 • P12: 45 P13: 45 P14: 37 • • Mobilities: 117,160 € • 86 PA to PR flows • 33 PR to PR flows • 8 PA to PA flows • 12 PR to PA flows • • WP7 • Staff costs: 26,920 € 		<p>willing to travel</p> <ul style="list-style-type: none"> • A: Academic staff motivated and prepared for training • R: Delays in study visits' implementation • R: Teaching staff at WB HEIs is not willing to accept new teaching methods • R: Technical problems (internet connection problems, software problems, timely translation of publications) • R: Various problem in adaptation of developed learning material to new methodological approach • • WP4, WP5 • A: Regular work of accreditation bodies • A: Relevant number of students interested to enrol • A: Availability of staff members with respective qualification • R: Duration time of accreditation processes • R: Inability of guest lecturers to perform teaching tasks • R: Technical problems • • WP6 • A: Availability of staff members with respective qualification within specific time frame • A: Relevant number of stakeholders interested in LLL courses
---	--	--	--

<ul style="list-style-type: none"> • 7.2 Create polls for different types of activities • 7.3 Learning material peer review • 7.4 External review of the Glossary • 8.1 Create dissemination plan • 8.2 Develop, maintain and promote K-FORCE Website • 8.3 Open/maintain e-library public access area • 8.4 Perform media, enrolment and LLL promo campaigns • 8.5 Organize 3 Symposia • 9.1 Organize K-FORCE bodies meetings • 9.2 Prepare/adopt the PM plan, procedures and Risk Plan • 9.3 Inter project coaching • 9.4 Manage all pr 	<ul style="list-style-type: none"> • Staff days: 266 • P1: 27 P2: 7 P3: 7 • P4: 7 P5: 7 P6: 7 • P7: 14 P8: 14 P9: 22 • P10: 25 P11: 105 • P12: 9 P13: 9 P14: 7 • • Sub-contracting cost (external expert quality report and Glossary review): 6,000 € • • WP8 • Staff costs: 29,956 € • Staff days: 355 • P1: 60 P2: 16 P3: 16 • P4: 16 P5: 36 P6: 16 • P7: 7 P8: 7 P9: 7 • P10: 12 P11: 15 P12: 42 • P13: 50 P14: 55 • • Mobilities: 74,335 € • 42 PA to PA flows • 54 PR to PA flows • 16 PA to PA student flows • • Sub-contracting cost (translation services): 12,000 € • • WP9 • Staff costs: 56,103 € • Staff days: 501 • P1: 122 P2: 31 P3: 21 • P4: 21 P5: 21 P6: 21 • P7: 38 P8: 28 P9: 22 		<ul style="list-style-type: none"> • R: Technical problems • R: Various problem in adaptation of developed material to new methodological approach • • WP7 • A: Well-defined internal evaluation procedures and protocols in partner HE institutions • R: Many staff does not understand QA so avoid doing it • • WP8 • A: Continued interest of target groups • A: Willingness of media to cover visibility activities • R: Different social situation in the periods campaigns' realisation • R: Technical problems with WEB page and other technical issues • • WP9 • A: Administrative staff competence for efficient project implementation • A: Fully working communication mechanism • R: Creating structures for project management are not fully relying on the bureaucratic procedures • R: SC and WGs members are overburden with their other activitie
---	---	--	--

	<ul style="list-style-type: none">• P10: 27 P11: 36 P12: 40• P13: 39 P14: 34•• Mobilities: 81,310 €• 62 PA to PA flows• 60 PR to PA flows• 3 PA to PR flows• 2 P1 to Brussel• Sub-contracting cost (external audit report): 14,000 €		
--	--	--	--