



BUSINESS ANALYTICS SKILLS FOR THE FUTURE- PROOF SUPPLY CHAINS

PROJECT MANAGEMENT HANDBOOK – QUALITY & EVALUATION PLAN – STATUSES OF COMPLETION

Authors:
BAS4SC Project TEAM

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1. STATUSES OF COMPLETION

At the end of the project, the partners verified that the indicators set out in the Project Management Book – Quality & Evaluation Plan had been achieved. The tables below summarises the results.

QUALITY AND EVALUATION CONTROL

No.	Quality indicators	Status
1	short-term impact on participants (knowledge, skills, competencies) and on participating organizations (changes in organizational capacity, e.g., increased competencies in digitalization and didactics)	Acquisition of new skills by academic teachers in the use of developed courses in the field of business analytics and the platform. Implementation of course programs into the offer of partner universities. Acquisition of analytical skills by students participating in training courses.
2	the potential impact on individuals and organizations in the medium- and long-term	Access to materials for students and universities outside the project consortium, for companies the opportunity to hire graduates with analytical skills acquired during the course
3	added value of project results	Acquisition of analytical skills in three areas, use of additional materials and Open Educational Resources (OER), and the possibility of using materials within an open virtual environment.
4	participant satisfaction at trainings (teaching and learning content, e-course, user materials)	Confirmed with WP3 QA reports: <ul style="list-style-type: none">A3.7_Development of report on the evaluation of Course 1 - academic teachers



No.	Quality indicators	Status
		<ul style="list-style-type: none"> • A3.8_Development of report on the evaluation of Course 2 - academic teachers • A3.9_Development of report on the evaluation of Course 3 - academic teachers • A3.10_Development of report on the evaluation of Course 1 - students • A3.11_Development of report on the evaluation of Course 2 - students • A3.12_Development of report on the evaluation of Course 3 - students
5	relevance and overall usability of learning materials (case studies, learning materials)	During the project, the materials were used by lecturers from Poland and Slovenia. They were incorporated into university programs. Universities outside the consortium have also expressed an interest in using the materials.
6	information exchange between lecturers and trainees	Information was exchanged on an ongoing basis during training and during online and face-to-face meetings.

No.	Quantitative indicators	Number for the achieved indicator
1	1 website in EN language	1
2	1 virtual environment for uploading materials in 5 languages (EN, HR, PL, SR, SI)	1 in 5 languages



No.	Quantitative indicators	Number for the achieved indicator
3	minimum 4 project's social media profiles	6
4	minimum 10 Multiplier Events in 4 countries	19
5	1 final international conference	1
6	minimum 1 presentation at the conference	7
7	minimum 6 e-newsletters in 5 partner languages	6 + 1 in EN (competition newsletter)
8	minimum 4 letters of intent from universities outside of project consortium	9
9	minimum 1 dissemination strategy developed	1
10	minimum 2 scientific publications produced	2 published and 2 in a publication process
11	minimum 10 business representatives participating in the conference	14
12	minimum 60 pilot participants - students	64
13	minimum 15 pilot participants - academic teachers	20
14	minimum 25 students taking part in an international competition	30
15	minimum 300 downloads of teaching materials from the project's virtual environment (moodle platform)	8 587 – downloads of teaching materials from the project's virtual environment (moodle platform) 31 438 – course views on the project's virtual environment (moodle platform)



No.	Quantitative indicators	Number for the achieved indicator
		*data from 30.09.2025
16	minimum 150 students who participated in the classes with the use of the developed materials	847 – PSL 100 – UM 560 – PUT 1507 in total
17	minimum 175 respondents participating in the competency survey - from the group of students	464
18	minimum 50 respondents participating in the competency survey - from the group of academic teachers	108
19	minimum 90 respondents participating in the competency survey - from the group of representatives of logistics companies	127
20	qualitative assessment of materials by students with a minimum grade of 4.0	Three courses have been evaluated by students: <ul style="list-style-type: none"> • C1: Advanced use of spreadsheets to analyze logistics data – grade 4,44 • C2: Business Intelligence – grade 4,83 • C3: Statistical methods for analyzing logistics data – grade 4,72



No.	Quantitative indicators	Number for the achieved indicator
21	qualitative assessment of materials by academic teachers with a minimum grade of 4.0	<p>Three courses have been evaluated by academic teachers:</p> <ul style="list-style-type: none"> • C1: Advanced use of spreadsheets to analyze logistics data – grade 4,72 • C2: Business Intelligence – grade 4,69 • C3: Statistical methods for analyzing logistics data – grade 4,64

Quality and evaluation of the project activities' implementation

No.	Quality indicators	Status
1	to carry out ongoing monitoring of the project design and development activities, providing feedback and recommendations for corrective action whenever needed	Done at every regular meetings (sprints) by all partners, coordinator, Project executive board and certified project evaluator with ECQA certificate
2	to carry out ongoing monitoring of the project management activities, from the coordinator point of view, the work package leaders, and the individual partners, with special attention to communication and collaboration	Done at every regular meetings (sprints) by all partners, coordinator, Project executive board and certified project evaluator with ECQA certificate



No.	Quality indicators	Status
3	to facilitate reflection and critical thinking among the partners on different aspects of the project, in order to generate and collect partner feedback and ensure an integrated approach to the project, in which all are participants	Done at every regular meetings (sprints) by all partners, coordinator, Project executive board and certified project evaluator with ECQA certificate
4	to carry out specific evaluation activities at various points in the life of the project corresponding to the points identified in the critical path analysis mentioned earlier in this document	Done at every regular meetings (sprints) by all partners, coordinator, Project executive board and certified project evaluator with ECQA certificate

No.	Quantitative indicators	Number for the achieved indicator
1	At least 8 reports on a qualitative assessment of the materials produced within the project	<p>24 reports confirmed with documents:</p> <ul style="list-style-type: none"> • WP1.1_BAS4SC Project Abstract • WP1.3_ project management handbook – quality & evaluation plan – statues of completion • A2.1_Checking a curriculums and study programs of logistics fields in high ranked world universities in terms of using BI in logistics • A2.2_Summary of selected survey responses of teachers, students and graduates of the university • A2.3_A summary of selected survey responses from entrepreneurs, managers and specialists



No.	Quantitative indicators	Number for the achieved indicator
		<ul style="list-style-type: none"> • A2.4_Competence gap in study programs according to results conducted research • A3.2_Introducing courses to existing study programs and intent letters • A3.5. Development of a virtual environment for placing materials • A3.7_Development of report on the evaluation of Course 1 - academic teachers • A3.8_Development of report on the evaluation of Course 2 - academic teachers • A3.9_Development of report on the evaluation of Course 3 - academic teachers • A3.10_Development of report on the evaluation of Course 1 - students • A3.11_Development of report on the evaluation of Course 2 - students • A3.12_Development of report on the evaluation of Course 3 - students • A4.1_Teacher training activity (T) • A4.2_Student training activity (C1) • A4.3_Student training activity (C2) • A4.4_Student training activity (C3) • A4.5_Student training activity (C4) • A5.3_Develop research articles • A5.4_Organizing an international conference • A5.5_Perform regular dissemination • A5.25_Report_Multiplier Events • A5.26_Report of newsletters



Quality and evaluation of general project management

No.	Quality indicators	Status
1	financial and physical advancement	Done by every partner regularly - quarterly reports
2	timetable respect within sprint meetings	Done at every regular meetings (sprints) by all partners, coordinator, Project executive board and certified project evaluator with ECQA certificate

Quality and evaluation of project partnership

No.	Quality indicators	Status
1	project partnership	Evaluation done at every regular meetings (sprints) by all partners, coordinator, Project executive board and certified project evaluator with ECQA certificate and using online survey at the end of the project.

Quality and evaluation of project results and activities

No.	Quality indicators	Status
1	the contents are in accordance with the objective stated in the project description	Three courses have been developed: <ul style="list-style-type: none">• C1: Advanced use of spreadsheets to analyze logistics data• C2: Business Intelligence



No.	Quality indicators	Status
		<ul style="list-style-type: none"> C3: Statistical methods for analyzing logistics data <p>and all materials have been posted in the virtual environment - results of Work Package 3</p>
2	the allocation of the tasks is realistic and consistent with the roles of the partners as defined in the proposal, unless modifications have been made	The partners completed the tasks assigned to them. One change was made to the responsibilities for the modules developed under C2, resulting in higher-quality materials. This change in task allocation was agreed by all partners and approved by the project coordinator, Project executive board and certified project evaluator with ECQA certificate
3	the given timetable is realistic and matches the deadline set out in the project proposal unless modifications have been made	The partners met the deadlines for completing the work. In some cases, the deadline for individual tasks was postponed by a maximum of one sprint, but this did not affect the deadline for completing the entire project or other work packages (WPs).
4	compliance with the objectives as stated in the project description in the Grant Agreement	All objectives have been achieved
5	the completeness of the documentation describing the work done	All the tasks set were completed by the partners, as confirmed by the relevant documents/files. They also created additional quality reports on the



No.	Quality indicators	Status
		implementation of activities to ensure the final result of the project.
6	compliance with the templates and editing guidelines provided by the work package leader and/or project coordinator	All materials were prepared in accordance with the templates that the project coordinator provided during the project kick-off meeting.
7	clarity and legibility	<p>The materials were prepared clearly and legibly, as confirmed by surveys of academic teachers and students, the results of which are included in the reports:</p> <ul style="list-style-type: none"> • A3.7_Development of report on the evaluation of Course 1 - academic teachers • A3.8_Development of report on the evaluation of Course 2 - academic teachers • A3.9_Development of report on the evaluation of Course 3 - academic teachers • A3.10_Development of report on the evaluation of Course 1 - students • A3.11_Development of report on the evaluation of Course 2 - students • A3.12_Development of report on the evaluation of Course 3 - students



No.	Quality indicators	Status
8	the degree to which the output constitutes a complete response to the task usefulness to the target reader and audience	This is 100% due to the fact that we are covering the competency gap in analytical skills within the supply chain.
9	complete version history	Draft version of materials are available at Project's MS Teams

No.	Quantitative indicators	Number for the achieved indicator
1	project results – 3 courses	<p>Three courses have been developed:</p> <ul style="list-style-type: none"> • C1: Advanced use of spreadsheets to analyze logistics data • C2: Business Intelligence • C3: Statistical methods for analyzing logistics data <p>With additional materials. The courses are implemented into virtual environment in 5 language versions. A total of six QA surveys were conducted, with two for each course. Three of the surveys were completed by academic teachers and three by students. The survey assessed the quality of the materials for C1, C2 and C3.</p>
2	training activities for staff and students	Four QA surveys were conducted as part of training sessions for teachers (1 survey) and students (3 surveys).
3	1 conference closing the project	One QA survey was conducted as part of the competition and the conference closing the project.



No.	Quantitative indicators	Number for the achieved indicator
		The survey assessed the quality of the competition and organizational issues related to the conference.

Quality and evaluation of project results

No.	Quality indicators	Status
1	WP2: competencies need analysis	An evaluation survey was carried out to assess the work carried out under WP2, in which all partner organisations participated. The survey gave an average rating of 9.73.
2	WP3: courses programmers and materials development	An evaluation survey was carried out to assess the work carried out under WP3, in which all partner organisations participated. The survey gave an average rating of 9.75.
3	WP4: piloting and testing	An evaluation survey was carried out to assess the work carried out under WP4, in which all partner organisations participated. The survey gave an average rating of 9.90.



Quality and evaluation of transnational project meetings

No.	Quality indicators	Status
1	Minutes for all partners meetings: f-2-f and online (sprints)	The minutes for all meetings were prepared immediately after their conclusion and sent to the partners. The minutes have also been posted on MS Teams.

Quality and evaluation of multiplier events

No.	Quantitative indicators	Number for the achieved indicator
1	minimum 10 multiplier events in 4 countries (>20 participants/event)	19 Multiplier Events - 485 participants in total
2	1 final international conference (>50 participants)	>50 participants at 1 final conference
3	lists of participants (minimum 200 participants total)	485 participants
4	minimum 10 event agendas with details on daily activities	19 agendas
5	minimum 6 e-newsletters in 5 partner languages (> 50 recipients)	6 + 1 in EN (competition newsletter) – 584 unique recipients
6	event photos	Photos from each event



Quality and evaluation of training activities

No.	Quantitative indicators	Number for the achieved indicator
1	1 trainings in 1 country (minimum 15 learners)	1 trainings in 1 country – 20 learners
2	1 list of participants (minimum 15 learners)	1 list of participants – 20 learners
3	1 training agenda with details on daily activities	1 training agenda with details on daily activities
4	event photos	Photos from event
5	evaluation of content and quality of all three courses	3 QA surveys – 1 per each course
6	3 reports regarding materials quality evaluation – 1 per each course	Confirmed with WP3 QA reports: <ul style="list-style-type: none"> • A3.7_Development of report on the evaluation of Course 1 - academic teachers • A3.8_Development of report on the evaluation of Course 2 - academic teachers • A3.9_Development of report on the evaluation of Course 3 - academic teachers
7	3 trainings in 3 countries (minimum 20 students per training)	3 trainings in 2 countries – 64 students in total
8	3 lists of participants (minimum 20 students per training)	3 lists of participants – 64 students in total
9	3 training agendas with details on daily activities	3 training agendas with details on daily activities
10	event photos	Photos from each event



No.	Quantitative indicators	Number for the achieved indicator
11	evaluation of content and quality of all three courses	3 QA surveys – 1 per each course
12	3 reports regarding materials quality evaluation – 1 per each course	Confirmed with WP3 QA reports: <ul style="list-style-type: none"> • A3.10_Development of report on the evaluation of Course 1 - students • A3.11_Development of report on the evaluation of Course 2 - students • A3.12_Development of report on the evaluation of Course 3 - students
13	1 training (final competition) in 1 country (minimum 25 students, 5 teams)	1 training (final competition) in 1 country – 30 students, 7 teams
14	1 list of participants (minimum 25 students, 5 teams)	1 list of participants – 30 students, 7 teams
15	1 training agenda with details on daily activities	1 training agenda with details on daily activities
16	event photo	Photos from event
17	evaluation of content and quality of the final competition and competition task	QA survey
18	1 report regarding of the final competition evaluation	Confirmed with WP4 QA report: <ul style="list-style-type: none"> • A5.4_Organizing an international conference